

PROJECT ID: PMN06011997

SAMPLE ID: NO SAMPLE ID

Descriptor: PESTICIDE
MONITORING NETWORK

PN/66

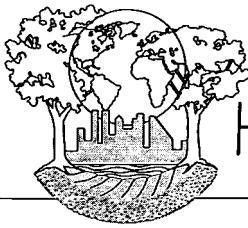
IDEM

DK 12187 - DK 12203 & DK 12523 - DK 12525



**Environmental
Health Laboratories**

110 South Hill Street
South Bend, Indiana 46617
(219)233-4777
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(219)233-8207 FAX



Environmental Health Laboratories

110 S. Hill Street
South Bend, IN 46617-2702
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LABORATORY REPORT

Client: IDEM Report #: 396940-397049
Attn: Mitt Denney
Groundwater Section
100 North Senate Avenue
P. O. Box 6015
Indianapolis, IN 46206-6015

Priority: Standard Written
Status: Final

Project : DK 12187 - DK 12203 & DK 12523 - DK 12525

Samples Submitted: Twenty groundwater samples

Copies to: None

Collected: 03/10 to 03/11/99

By: Client

Received: 03/17/99

REPORT SUMMARY

Twenty groundwater samples were submitted for analysis of Task 4A, 2,4-D and Carbofuran (Enzyme Immunoassay), Pesticides (Method 525.2).

Note: Sample containers were provided by the client.

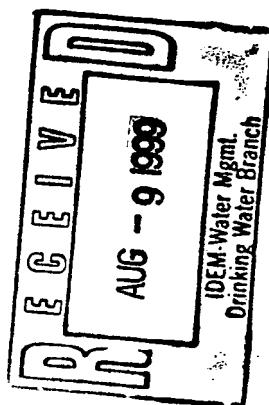
The following is a summary of the results by sample.

2,4-D Enzyme Immunoassay (Case Narrative)

Analytical results were designated as reportable based on the associated quality control samples.

2,4-D Enzyme Immunoassay (Results Summary)

- | | |
|---------|--|
| DK12187 | 2,4-D was not detected in the sample submitted for analysis. |
| DK12188 | 2,4-D was not detected in the sample submitted for analysis. |
| DK12189 | 2,4-D was not detected in the sample submitted for analysis. |
| DK12190 | 2,4-D was not detected in the sample submitted for analysis. |
| DK12191 | 2,4-D was not detected in the sample submitted for analysis. |
| DK12192 | 2,4-D was not detected in the sample submitted for analysis. |



2,4-D Enzyme Immunoassay (Results Summary) - Cont'd

DK12193 2,4-D was not detected in the sample submitted for analysis.

DK12194 2,4-D was not detected in the sample submitted for analysis.

DK12195 2,4-D was not detected in the sample submitted for analysis.

DK12196 2,4-D was not detected in the sample submitted for analysis.

DK12197 2,4-D was not detected in the sample submitted for analysis.

DK12198 2,4-D was not detected in the sample submitted for analysis.

DK12199 2,4-D was not detected in the sample submitted for analysis.

DK12200 2,4-D was not detected in the sample submitted for analysis.

DK12201 2,4-D was not detected in the sample submitted for analysis.

DK12202 2,4-D was not detected in the sample submitted for analysis.

DK12203 2,4-D was not detected in the sample submitted for analysis.

DK12523 2,4-D was not detected in the sample submitted for analysis.

DK12524 2,4-D was not detected in the sample submitted for analysis.

DK12525 2,4-D was not detected in the sample submitted for analysis.

Carbofuran Enzyme Immunoassay (Case Narrative)

Analytical results were designated as reportable based on the associated quality control samples.

Carbofuran Enzyme Immunoassay (Results Summary)

DK12187 Carbofuran was not detected in the sample submitted for analysis.

DK12188 Carbofuran was not detected in the sample submitted for analysis.

DK12189 Carbofuran was not detected in the sample submitted for analysis.

DK12190 Carbofuran was not detected in the sample submitted for analysis.

DK12191 Carbofuran was not detected in the sample submitted for analysis.

Carbofuran Enzyme Immunoassay (Results Summary) - Cont'd

DK12192	Carbofuran was not detected in the sample submitted for analysis.
DK12193	Carbofuran was not detected in the sample submitted for analysis.
DK12194	Carbofuran was not detected in the sample submitted for analysis.
DK12195	Carbofuran was not detected in the sample submitted for analysis.
DK12196	Carbofuran was not detected in the sample submitted for analysis.
DK12197	Carbofuran was not detected in the sample submitted for analysis.
DK12198	Carbofuran was not detected in the sample submitted for analysis.
DK12199	Carbofuran was not detected in the sample submitted for analysis.
DK12200	Carbofuran was not detected in the sample submitted for analysis.
DK12201	Carbofuran was not detected in the sample submitted for analysis.
DK12202	Carbofuran was not detected in the sample submitted for analysis.
DK12203	Carbofuran was not detected in the sample submitted for analysis.
DK12523	Carbofuran was not detected in the sample submitted for analysis.
DK12524	Carbofuran was not detected in the sample submitted for analysis.
DK12525	Carbofuran was not detected in the sample submitted for analysis.

EPA 525.2-AE033199 (Case Narrative)

Analytical results were designated as reportable based on the associated quality control samples. Deviations from method requirements are noted below.

CCC: Recoveries for bromacil and fenamiphos recoveries in the second CCC at 1.0 µg/L were biased high outside the acceptance limits of 70-130% recovery.

LFB: Recoveries for bromacil and fenamiphos recoveries in the LFB at 1.0 µg/L were biased high outside the acceptance limits of 70-130% recovery.

EPA 525.2-AE033199 (Results Summary)

DK12187	None of the requested parameters were detected in the sample submitted for analysis.
DK12188	None of the requested parameters were detected in the sample submitted for analysis.
DK12189	None of the requested parameters were detected in the sample submitted for analysis.
DK12190	None of the requested parameters were detected in the sample submitted for analysis.
DK12191	None of the requested parameters were detected in the sample submitted for analysis.
DK12192	None of the requested parameters were detected in the sample submitted for analysis.
DK12193	None of the requested parameters were detected in the sample submitted for analysis.
DK12194	None of the requested parameters were detected in the sample submitted for analysis.
DK12195	None of the requested parameters were detected in the sample submitted for analysis.
DK12196	None of the requested parameters were detected in the sample submitted for analysis.

EPA 525.2-AE041699 (Case Narrative)

Please Note: This run was a re-run of a run performed on April 1, 1999. Reanalysis was necessary due to poor recovery of the tracking standard. Reanalysis of the extracts was performed outside of extract holding time. Samples were analyzed at neutral pH at the client's request. Sample DK12524 only had 570 mL available for extraction. Analytical results have been adjusted for the smaller volume.

Analytical results were designated as reportable based on the associated quality control samples. Deviations from method requirements are noted below.

EPA 525.2-AE041699 (Case Narrative) - Cont'd

LPC: The LPC chromatograph did not yield any peaks, so the CCCs were used to determine the chromatographic performance for this analysis. The signal to noise ratio could not be calculated for chlorpyrifos or vernolate. The resolution of chlorothalonil and delta-BHC could not be determined either, since these compounds were in separate CCCs. The peak Gaussian factor of bromacil did not meet the LPC acceptance criteria.

CCC: Recoveries of fenamiphos in both CCCs at 2.0 µg/L were biased high outside the acceptance limits of 70-130% recovery. Recalibration for this analyte will be performed.

LFB: Recoveries for bromacil and simazine in the LFB at 1.0 µg/L were biased high outside the acceptance limits of 70-130% recovery.

IS/SS: Recovery of the tracking standard, pyrene-d10, in samples DK 12197, DK 12199, DK 12201, DK 12523 and in the second CCC were biased high outside the acceptance limits of 70-130% recovery. Recovery of the IS, chrysene-d12, and two of four SS in sample DK 12524 were biased low outside the acceptance limits. Recovery of one of four SS in sample DK 12525 was biased high outside the acceptance limits of 70-130% recovery.

EPA 525.2-AE041699(Results Summary)

DK12197	None of the requested parameters were detected in the sample submitted for analysis.
DK12198	None of the requested parameters were detected in the sample submitted for analysis.
DK12199	None of the requested parameters were detected in the sample submitted for analysis.
DK12200	None of the requested parameters were detected in the sample submitted for analysis.
DK12201	None of the requested parameters were detected in the sample submitted for analysis.
DK12202	None of the requested parameters were detected in the sample submitted for analysis.
DK12203	None of the requested parameters were detected in the sample submitted for analysis.
DK12523	None of the requested parameters were detected in the sample submitted for analysis.

Client: IDEM

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EPA 525.2-AE041699(Results Summary) - Cont'd

DK12524 None of the requested parameters were detected in the sample submitted for analysis.

DK12525 None of the requested parameters were detected in the sample submitted for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call us at (219) 233-4777.

REVIEWED BY: _____

DATE: _____

FINALIZED BY:



DATE: 8/6/99



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ORDER # 39052

SHAIDED AREA FOR LAB USE ONLY

CHAIN OF CUSTODY RECORD

PAGE 1 OF

CLIENT/COMPANY ORDERING TEST: **IDCM** SHAIRED ID# SAMPLING SITE/LAB ID# **JN**

SAMPLER SIGNATURE: **EK**
OF CONTAINERS: _____
MATRIX CODE: _____
TURNAROUND TIME: _____
CUSTODY SEAL: _____

EHL LAB#	COLLECTION DATE	TIME	SAMPLING SITE/LAB ID#	TEST NAME	SAMPLE REMARKS	PWS ID#	PO#
396940	3/10	1115	AP	DK 12187	INVALID	535.2	1
396941			AP			515.1	1
396942			AP			531.1	2
396943			AP			214-D	1
396944		✓	AP			Carbofuran	1
396945		1155	AP	DK 12188	INVALID	535.2	1
396946			AP			515.1	1
396947			AP			531.1	2
396948		✓	AP			214-D	1
396949			AP			Carbofuran	1
			AP				
			AP				
			AP				

FIELD COMMENTS:

CARRIER _____

AIRPORT NO. _____

COOLER NO. _____

DATE SHIPPED _____

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT.

RELINQUISHED BY: (Signature)

DATE: _____

TIME: _____

LAB COMMENTS: _____

REINQUISTED BY: (Signature)

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ORDER #

CHAIN OF CUSTODY RECORD

 PAGE 2 OF _____

SHADED AREA FOR LAB USE ONLY

CLIENT/COMPANY ORDERING TEST

SAMPLE SIGNATURE

PWS ID#

PO#

OF CONTAINERS

MATRIX CODE

TURNAROUND TIME

CUSTODY SEAL

IDCM

SAMPLING SITE/LAB ID#

TEST NAME

SAMPLE REMARKS

EHL LAB#	COLLECTION DATE	TIME	SAMPLING SITE/LAB ID#	SAMPLE REMARKS	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME	CUSTODY SEAL
396950	3/10	1225	N/P	DK 12189	535.2			
396951			N/P	Invalid	515.1			
396952			N/P		531.1			
396953			N/P		214-D			
396954			N/P		Carbofuran			
396955			1255	DK 12190	535.2			
396956			N/P	Invalid	515.1			
396957			N/P		531.1			
396958			N/P		214-D			
396959			N/P		Carbofuran			
396960			N/P					
396961			N/P					
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397153			N/P					
397154			N/P					
39715								

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ORDER #



SAFED AREA FOR ABUSE ONLY

CHAIN OF CUSTODY RECORD

PAGE 3 OF 14

CLIENT/COMPANY ORDERING TEST		STAFF OR SAMPLE ORIGIN		SAMPLE SIGNATURE	PWS ID#	PO#	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME	CUSTODY SEAL
JDCM		JN		EK						
EHL LAB#	COLLECTION DATE	TIME	SAMPLING SITE/LAB ID #	TEST NAME	SAMPLE REMARKS					
396900	3/10	1330	A/P	DK 12191	535.2		1			
396941			A/P	Invalid	515.1		1			
396942			A/P		531.1		2			
396943			A/P		214-D					
396944			A/P		Oroboran		1			
396945			A/P	DK 12192	535.2		1			
396946			A/P	Invalid	515.1		1			
396947			A/P		531.1		2			
396948			A/P		214-D		1			
396949			A/P		Carbofuran		1			
396950			A/P							
396951			A/P							
396952			A/P							
396953			A/P							
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396968			A/P							
396969			A/P							
396970			A/P							
396971			A/P							
396972			A/P							
396973			A/P							
FIELD COMMENTS:		CARRIER	AIRBL. NO.	COUPL. NO.	DATE SHIPPED					
<p align="center">LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT.</p> <p align="center"><i>D. Hause COC</i></p>										
RELINQUISHED BY: [Signature]	DATE	TIME	RECEIVED BY: [Signature]	DATE	TIME	LAB COMMENTS				
REINQUISTERED BY: [Signature]	DATE	TIME	RECEIVED BY: [Signature]	DATE	TIME					
MATRIX CODES:										
RW = REAGENT WATER	SW = STANDARD [15 WORKING DAYS] WRITTEN	IV = IMMEDIATE [72 HOURS] VERBAL	100%	STAT = LESS THAN 48 HOURS						
DW = DRINKING WATER	50% RW = RUSH [5 WORKING DAYS] WRITTEN	IW = IMMEDIATE [72 HOURS] WRITTEN	125%	Call						
GW = GROUNDWATER	SW = SURFACEWATER	SP = WEEKEND/HOLIDAY								
WW = WASTEWATER	PW = POOLWATER									

TURN-AROUND-TIME (TAT) - SURCHARGES

SW = STANDARD [15 WORKING DAYS] WRITTEN

IV = IMMEDIATE [72 HOURS] VERBAL

IW = IMMEDIATE [72 HOURS] WRITTEN

SP = WEEKEND/HOLIDAY

RW = RUSH [5 WORKING DAYS] WRITTEN

Call

STAT = LESS THAN 48 HOURS

Turn-around time remaining may be subject to additional surcharges.

SHIPPING CONDITIONS: (Check One)
 Iced Ambient
 Refrigerated Frozen
 ^{°C} Lowest ^{°C} Highest
 ^{°C} Receipt


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ORDER #

CHAIN OF CUSTODY RECORD

 PAGE **4** OF **4**

SHAIDED AREA FOR LAB USE ONLY

CLIENT/COMPANY ORDERING LSLI	STATE OR SAMPLE ORIGIN		SAMPLER (Signature)	PWS ID#	PO#	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME	CUSTODY SEAL
IDCM	EHL	COLLECTION	SAMPLING SITE/LAB ID #	TEST NAME	SAMPLE REMARKS				
LAB#	DATE	TIME							
396970	3/10	1440	AP	DK12193	535.2	1			
396971			AP	INVAL1d	515.1	1			
396972			AP		531.1	2			
396973			AP		214-D	1			
396974			AP		Carbofuran	1			
396975		1515	AP	DK12194	535.2	1			
396976			AP	INVAL1d	515.1	1			
396977			AP		531.1	1			
396978			AP		214-D	1			
396979			AP		Carbofuran	1			
396980			AP						
396981			AP						
396982			AP						
396983			AP						
396984			AP						
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396989			AP						
396990			AP						
396991			AP						
396992			AP						
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397001			AP						
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397004			AP						
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397010			AP						
397011			AP						
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397016			AP						
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397019			AP						
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397051			AP						
397052			AP						
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397101			AP						
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397110			AP						
397111			AP						
397112			AP						
397113			AP						
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397118			AP						
397119			AP						
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397160			AP						
397161			AP				</		

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ORDER #

CHAIN OF CUSTODY RECORD

PAGE 5 OF 5

SIGNED AREA FOR LAB USE ONLY

SAMPLE ORIGINATOR

IDCM

IN

EHL LAB#	COLLECTION		TEST NAME	SAMPLE REMARKS	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME	CUSTODY SEAL
	DATE	TIME						
316090	3/10	1600	AP	DK12195	535.2	1		
3161281			AP	INVALID	515.1	1		
3161983			AP		531.1	2		
3161983			AP		214-D			
3161984			AP		Carbofuran - will break in transi			
3161985			AP	DK12196	will split w/other assay			
3161986			AP		535.2	1		
3161987			AP		515.1	1		
3161988			AP		214-D	2		
3161989			AP		Carbofuran	1		
3161990			AP					
3161991			AP					
3161992			AP					
3161993			AP					
3161994			AP					
3161995			AP					
3161996			AP					
3161997			AP					
3161998			AP					
3161999			AP					
3162000			AP					
3162001			AP					
3162002			AP					
3162003			AP					
3162004			AP					
3162005			AP					
3162006			AP					
3162007			AP					
3162008			AP					
3162009			AP					
3162010			AP					
3162011			AP					
3162012			AP					
3162013			AP					
3162014			AP					
3162015			AP					
3162016			AP					
3162017			AP					
3162018			AP					
3162019			AP					
3162020			AP					
3162021			AP					
3162022			AP					
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3162110			AP					
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3162165			AP					
3162166			AP					
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3162178			AP					
3162179			AP					
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3162182			AP				</	



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ELIASER AND RABINOWITZ

CLINICAL EXPERIENCE

1

CLIENT/COMPANY ORDERING TEST

CLINICALLY ORIENTED TEST

CHAIN OF CUSTODY RECORD

PAGE 6 (of

FIRE COMMUNIS

C. Akkik

AIR MAIL NO. _____ CONFIRM NO. _____ DATE SHIPPED

DATE STRIPPED

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-ACCREDITED SAMPLES.

RELINQUISHED BY: [Signature]	DATE	TIME	RECEIVED BY: [Signature]
TIME	DATE	TIME	LAB COMMENTS

REINQUISITION BY [Signature] DATE _____ TIME _____

MATRIX CODES: 888888 **RW** = REAGENT WATER
SHIPPING CONDITIONS: (Check One) Iced Ambient
TEMPERATURE: 3-12°C **Lowest** 30°C **Highest**

TURN-AROUND-TIME (TAT) - SURCHARGE

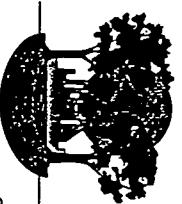
卷之三

STAT = LESS THAN 48 HOURS

3

holding time remaining may be subject to additional surcharges.

holding time remaining may be subject to additional surcharges.



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ORDER #

CHAIN OF CUSTODY RECORD

PAGE OF

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CLIENT/COMPANY ORDERING TEST			STATE OF SAMPLE ORIGIN	SAMPLER (Signature)	PWSID#	PO#
IDEM			IN	Ettie ECK		

EH-LAB#	COLLECTION DATE		TIME	SAMPLING SITE/LAB ID #	TEST NAME	SAMPLE REMARKS	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME	CUSTODY SEAL
397020	3/11	1040	AM	DK 12203	' S	525.2	2			
397021			AM		Invalid ms					
397022			AM		insd	515.1	1			
397023			AM		' S					
397024			AM		ms					
397025			AM		msd					
397026			AM		' S					
397027			AM		ms					
397028			AM		msd					
397029			AM		' S					
397030			AM		ms	24-D	2			
397031			AM		msd					
397032			AM		' S	Carboxuran	2			
FIELD COMMENTS:			AIRBILL NO.	Invalid ms	COOLER NO.	DATE SHIPPED	STAT = LESS THAN 48 HOURS			
397033				J		3 bottles mixed DK 12204 & DK 12203 - second permit	Call			
397034				J		an House COC	Samples received unaccompanied with less than 48 hours holding time remaining may be subject to additional surcharges.			

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT.

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME	LAB COMMENTS
			<i>S. S. ECK</i>			QC Samples mixed IDEM requirement per RC ss 322B

MATRIX CODES:
 RW = REAGENT WATER
 DW = DRINKING WATER
 GW = GROUNDWATER
 SW = SURFACE WATER
 WW = WASTEWATER
 PW = POOL WATER

SHIPPING CONDITIONS: (Check One) Iced Ambient
 TEMPERATURE: _____ °C Lowest _____ °C Highest _____ °C Receipt
J. H. House COC ss 3-22B

TURN-AROUND-TIME (TAT) - SURCHARGES

STAT = LESS THAN 48 HOURS
Call
 Samples received unaccompanied with less than 48 hours holding time remaining may be subject to additional surcharges.



INDIANA DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT

OWM

OSHWM

OER

OAM

1 of 4

CHAIN OF CUSTODY

I certify that the sample(s) listed below was/were collected by me or in my presence.

Signature: E. Kort

Date: 3 / 16 / 99
Section: Ground Water

LAB NUMBER ASSIGNED	ITEM CONTROL NUMBER	CONSISTING OF THE INDICATED NUMBER OF BOTTLES										DATE AND TIME COLLECTED
		2000 ml P.N.M.	1000 ml P.N.M.	1000 ml G.N.M.	500 ml G.W.M.	40 ml VIAL	120 ml G.(B.O.)	500 ml P.N.M.	250 ml P.N.M.	P.Y.	W.M.	
DK12187	/									✓		3 / 10 / 99 11:15 AM/PM
DK12188	✓									✓		3 / 10 / 99 11:55 AM/PM
DK12189	✓									✓		3 / 10 / 99 12:25 AM/PM
DK12190	✓									✓		3 / 10 / 99 12:55 AM/PM
DK12191	✓									✓		3 / 10 / 99 1:30 AM/PM
DK12192	✓									✓		3 / 10 / 99 2:10 AM/PM
DK12193	✓									✓		3 / 10 / 99 2:40 AM/PM
DK12194	✓-1-531 vial broke in transit ss									✓		3 / 10 / 99 3:15 AM/PM
DK12195	✓-1-Assay vial broke in transit ss									✓		3 / 10 / 99 4:00 AM/PM
DK12196	✓									✓		3 / 10 / 99 4:40 AM/PM
DK12197	✓									✓		3 / 10 / 99 5:10 AM/PM
DK12198	✓									✓		3 / 10 / 99 5:45 AM/PM

P - Plastic

G - Glass

N.M. - Narrow Mouth

W.M. - Wide Mouth

B.O. - Bact. Only

I certify that I received the above sample(s).

CARRIERS

Should samples be iced?

Y N

SIGNATURE	DATE AND TIME	SEALS INTACT	COMMENTS
RELINQUISHED BY: <u>E. Kort</u>	3 / 16 / 99 17:55 3/22	Y	
RECEIVED BY: <u>Sig. Sean</u>	09:30 AM/PM	N	
RELINQUISHED BY:	/ /	Y	
RECEIVED BY:	: AM/PM	N	
RELINQUISHED BY:	/ /	Y	
RECEIVED BY:	: AM/PM	N	
RELINQUISHED BY:	/ /	Y	
RECEIVED BY:	: AM/PM	N	
RELINQUISHED BY:	/ /	Y	
RECEIVED BY:	: AM/PM	N	

LAB CUSTODIAN

I certify that I received the above sample(s) and is/are recorded in the official record book. The same sample(s) will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Signature: _____ Date: _____ / _____ / _____ Time: _____ : _____ AM

Lab: _____ Address: _____



INDIANA DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT

OWM

OSHWM

OER

OAM

1 of 4

CHAIN OF CUSTODY

I certify that the sample(s) listed below was/were collected by me or in my presence.

Date: 3 / 15 / 99

Section:

Signature: P.Kat

LAB NUMBER ASSIGNED	ITEM CONTROL NUMBER	CONSISTING OF THE INDICATED NUMBER OF BOTTLES												DATE AND TIME COLLECTED				
		2000 ml	P.N.M.	1000 ml	P.N.M.	1000 ml	G.N.M.	500 ml	G.W.M.	40 ml	VIAL	120 ml	G.(B.O.)	500 ml	P.N.M.	250 ml	P.N.M.	P.W.M.
DK12199	✓																	3 / 11 / 99 8 :30 AM/PM
DK12200	✓																	3 / 11 / 99 9 :15 AM/PM
DK12201	✓																	3 / 11 / 99 9 :40 AM/PM
DK12202	✓																	3 / 11 / 99 10 :15 AM/PM
DK12203	✓																	3 / 11 / 99 10 :40 AM/PM
																		/ / : AM/PM
																		/ / : AM/PM
																		/ / : AM/PM
																		/ / : AM/PM
																		/ / : AM/PM
																		/ / : AM/PM
																		/ / : AM/PM

P - Plastic

G - Glass

N.M. - Narrow Mouth

W.M. - Wide Mouth

B.O. - Bacti. Only

CARRIERS

Should samples be sealed? Y N

I certify that I received the above sample(s).

SIGNATURE	DATE AND TIME	SEALS INTACT		COMMENTS
RELINQUISHED BY: P.Kat	3 / 16 / 99 17:55:32 29	Y	N	
RECEIVED BY: S. gegen	09:30 AM/PM			
RELINQUISHED BY:	/ /			
RECEIVED BY:	: AM/PM	Y	N	
RELINQUISHED BY:	/ /			
RECEIVED BY:	: AM/PM	Y	N	
RELINQUISHED BY:	/ /			
RECEIVED BY:	: AM/PM	Y	N	
RELINQUISHED BY:	/ /			
RECEIVED BY:	: AM/PM	Y	N	

LAB CUSTODIAN

I certify that I received the above sample(s) and is/are recorded in the official record book. The same sample(s) will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Signature: _____ Date: ____ / ____ / ____ Time: ____ : ____ AM/PM

Lab: _____ Address: _____



**INDIANA DEPARTMENT of ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER MANAGEMENT
GROUND WATER SECTION**

1 of 4

ASSIGNED LAB: EHL

Date Submitted:	3-15-99	Sample Nos Submitted Today:	DK 12187 to DK 12203
Project:	MONITORING NETWORK	Assigned IDEM Sample Nos:	[REDACTED]
Matrix:	Ground Water	Sampler:	[REDACTED]

TASKS &/OR PARAMETERS TO DETERMINE

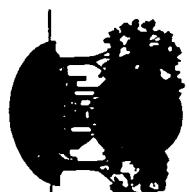
APPROXIMATE CONCENTRATIONS: 10ppm

REPORTING TIME REQUIRED: 30 DAYS

Comments:

Please Send Report To:

Mitt Denney
IDEM
Shadeland, Ground Water Section
P.O. Box 6015
Indianapolis, IN 46206-6015



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CHAIN OF CUSTODY RECORD

PAGE ____ OF ____

CLIENT/COMPANY ORDERING TEST IDEm	STATE OF SAMPLE ORIGIN IN		SAMPLER (Signature) my	PWS ID#	PO#
EHL LAB#	COLLECTION DATE	TIME	SAMPLING SITE/LAB ID #	TEST NAME	SAMPLE REMARKS
397035	3/10	1415	AP	DK 12523	535.2
397036			AP		535.1
397037			AP		531.1
397038			AP		2,4-D
397039	✓	✓	AP	✓	Careofuran
397040	3/11	1111	AP	DK 12524	535.2
397041			AP	✓	535.1) bottle broke in trans.
397042			AP	✓	531.1
397043			AP	✓	2,4-D
397044	✓	✓	AP	✓	Careofuran
			AP		
			AP		
			AP		

FIELD COMMENTS:

CARRIER _____

AIRBILL NO. _____

COOLER NO. _____

DATE SHIPPED _____

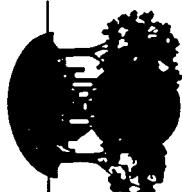
LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT.

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME	LAB COMMENTS
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY: <i>J. R. Rosen</i>	DATE 3/17/99	TIME 0930	SHIPPING CONDITIONS: (Check One) <input checked="" type="checkbox"/> Iced <input type="checkbox"/> Ambient TEMPERATURE: °C Lowest °C Highest °C Receipt

TURN-AROUND-TIME (TAT) - SURCHARGES

MATRIX CODES:
 RW = REAGENT WATER
 DW = DRINKING WATER
 GW = GROUND WATER
 SW = SURFACE WATER
 WW = WASTEWATER
 PW = POOL WATER

SW = STANDARD (15 WORKING DAYS) WRITTEN 0% IV = IMMEDIATE (72 HOURS) VERBAL 100% **STAT** = LESS THAN 48 HOURS
RV = RUSH (5 WORKING DAYS) WRITTEN 50% IW = IMMEDIATE (72 HOURS) WRITTEN 125% **Call**
RW = RUSH (5 WORKING DAYS) WRITTEN 75% SP = WEEKEND/HOLIDAY Samples received unannounced with less than 48 hours holding time remaining may be subject to additional surcharges.


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Health Laboratories


110 S. Hill Street · South Bend, IN 46617 · Phone (219) 233-4777 · (800) 332-4345

ORDER #

SHADED AREA FOR LAB USE ONLY

CHAIN OF CUSTODY RECORD

PAGE ____ OF ____

CLIENT/COMPANY ORDERING TEST ID#m	STATE OF SAMPLE ORIGIN		SAMPLER (Signature) mY	PWS ID#	PO#	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME	CUSTODY SEAL
	EHL LAB#	COLLECTION DATE	TIME	SAMPLING SITE/LAB ID #	TEST NAME	SAMPLE REMARKS			
397045	3/11	1230	AP	DK 12525	535.2		1	1	
397046			AP	INVERA	515.1		2	2	
397047			AP		2,4-D		1	1	
397048			AP		Carbofuran		1	1	
397049			AP		535.2		1	1	
35			AP		515.1		1	1	
			AP		2,4-D		2	2	
			AP		Carbofuran		1	1	
			AP						
			AP						
			AP						

FIELD COMMENTS: CARRIER _____

AIRBILL NO. _____

COOLER NO. _____ DATE SHIPPED _____

J M House Col
LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT.

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME	LAB COMMENTS
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY: <i>SGR 289</i>	DATE	TIME	SHIPPING CONDITIONS: (Check One) TEMPERATURE: _____ °C Lowest _____ °C Highest _____ °C Receipt

TURN-AROUND-TIME (TAT) - SURCHARGES

MATRIX CODES:	RW - REAGENT WATER	IV = IMMEDIATE (1/2 HOURS) VERBAL	100%	STAT = LESS THAN 48 HOURS
DW - DRINKING WATER	SW = STANDARD (15 WORKING DAYS) WRITTEN	1W = IMMEDIATE (72 HOURS) WRITTEN	125%	Call
GW - GROUNDWATER	RV = RUSH (5 WORKING DAYS) WRITTEN	SP = WEEKEND/HOLIDAY		Samples received unannounced with less than 48 hours holding time remaining may be subject to additional surcharges.
SW - SURFACE WATER		Call		
WW - WASTEWATER				
PW - POOL/WATER				



**INDIANA DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT**



OWM



OSHWM



OER



OAM

CHAIN OF CUSTODY

I certify that the sample(s) listed below was/were collected by me or in my presence.

Date: 3 / 15 / 99

Signature: Michael Yager

Section:

LAB NUMBER ASSIGNED	ITEM CONTROL NUMBER	CONSISTING OF THE INDICATED NUMBER OF BOTTLES										DATE AND TIME COLLECTED
		2000 ml P.N.M.	1000 ml P.N.M.	1000 ml G.N.M.	500 ml G.W.M.	40 ml VIAL	120 ml G.(B.O.)	500 ml P.N.M.	260 ml P.N.M.			
log 3/22	DK 12523			2	4							3 10 99 2:15 AM/PM
	DK 12524			1	4							3 11 99 11:11 AM/PM
↓	DK 12535			2	4							3 11 99 12:33 AM/PM
	DK 12526			10	12							3 12 99 12:40 AM/PM
												/ / : AM/PM
												/ / : AM/PM
												/ / : AM/PM
												/ / : AM/PM
												/ / : AM/PM
												/ / : AM/PM
												/ / : AM/PM
												/ / : AM/PM
												/ / : AM/PM
												/ / : AM/PM

P - Plastic

G - Glass

N.M. - Narrow Mouth

W.M. - Wide Mouth

B.O. - Bact. Only

CARRIERS

Should samples be iced?

Y N

I certify that I received the above sample(s).

SIGNATURE	DATE AND TIME	SEALS INTACT	COMMENTS
RELINQUISHED BY: <u>Michael Yager</u>	<u>3 / 15 / 99</u>	Y	N
RECEIVED BY: <u>S. Segerson</u>	<u>17:00 AM/PM</u>	Y	N
RELINQUISHED BY: <u>S. Segerson</u>	<u>3 / 16 / 99</u>	Y	N
RECEIVED BY: <u>S. Segerson</u>	<u>09:30 AM/PM</u>	Y	N
RELINQUISHED BY: <u>S. Segerson</u>	<u>/ /</u>	Y	N
RECEIVED BY: <u>S. Segerson</u>	<u>: AM/PM</u>	Y	N
RELINQUISHED BY: <u>S. Segerson</u>	<u>/ /</u>	Y	N
RECEIVED BY: <u>S. Segerson</u>	<u>: AM/PM</u>	Y	N
RELINQUISHED BY: <u>S. Segerson</u>	<u>/ /</u>	Y	N
RECEIVED BY: <u>S. Segerson</u>	<u>: AM/PM</u>	Y	N

LAB CUSTODIAN

I certify that I received the above sample(s) and is/are recorded in the official record book. The same sample(s) will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Signature: _____ Date: ____ / ____ / ____ Time: ____ : ____ AM/PM

Lab: _____ Address: _____



**INDIANA DEPARTMENT of ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER MANAGEMENT
GROUND WATER SECTION**

ASSIGNED LAB: EHL

Date Submitted:	<u>3/15/99</u>	Sample Nos Submitted Today:	DK 12523 to DK 12526
Project:	MONITORING NETWORK	Assigned IDEM Sample Nos:	DK to DK
Matrix:	Ground Water	Sampler:	

TASKS &/OR PARAMETERS TO DETERMINE

APPROXIMATE CONCENTRATIONS: 10ppm

REPORTING TIME REQUIRED: 30 DAYS

Comments:

Please Send Report To:

Mitt Denney
IDEM
Shadeland, Ground Water Section
P.O. Box 6015
Indianapolis, IN 46206-6015

ENVIRONMENTAL HEALTH LABORATORIES

Page 1 of 2

2 , 4 - D ANALYSIS RESULT SHEET

Method: Enzyme Immunoassay - Qualitative
 Run Date: 03/22/99 Run Time: 17:15
 LOT # Standard 1: 8G1216
 Standard 2: not used
 Standard 3: not used
 Control Solution: 8G1213
 Diluent/Zero Solution: 8G1015

Analyst: N. Myers
 Project(s): IDEM
 Enzyme Conjugate: 8G1071
 Stopping Solution: 8E1259
 Washing Solution: 8F1245
 Color Solution: 8G1016
 Magnetic Particles: 8G1070

Instrument ID: B&L Spectronic 21
 Run ID #: 17810
 Standard Warmup Time:
 Spectronic 21 Setting: 450
 Curve Date: 01/28/99
 Kit Lot : 8G1240
 in use : 03/22/99

Seq Num	Lab ID #	Client	Sample Description	Type	Absorbance (nm)	Bx ₁₀₀	Calcd. PBB	Final Result	% Rec.	Q
				Matrix	Ex	BB	PBB			
1			Diluent/Zero	0.0 ug/L	LMB	RW	1.419			
2			Diluent/Zero	0.0 ug/L	LMB	RW	1.446			
3			Standard1	1.0 ug/L	ICS	RW	1.181	82.4	0.9	Present 90
4			Standard1	1.0 ug/L	ICS	RW	1.168	81.5	0.9	Present 90
5			Control	3.5 ug/L	QCS	RW	0.941	65.7	3.2	Present 91
6	396943	IDEM	DK12187	FS	GW	1.580	110.3	< 1.0	Absent	
7	396948	IDEM	DK12188	FS	GW	1.660	115.9	< 1.0	Absent	
8	396953	IDEM	DK12189	FS	GW	1.600	111.7	< 1.0	Absent	
9	396958	IDEM	DK12190	FS	GW	1.510	105.4	< 1.0	Absent	
10	396963	IDEM	DK12191	FS	GW	1.550	108.2	< 1.0	Absent	
11	396968	IDEM	DK12192	FS	GW	1.590	111.0	< 1.0	Absent	
12	396973	IDEM	DK12193	FS	GW	1.560	108.9	< 1.0	Absent	
13	396978	IDEM	DK12194	FS	GW	1.610	112.4	< 1.0	Absent	
14	396983	IDEM	DK12195	FS	GW	1.580	110.3	< 1.0	Absent	
15	396988	IDEM	DK12196	FS	GW	1.590	111.0	< 1.0	Absent	
16			Diluent/Zero	0.0 ug/L	LMB	RW	1.375	96.0	< 1.0	Absent
17			Standard1	1.0 ug/L	CCC	RW	1.137	79.4	1.1	Present 110
18	396993	IDEM	DK12197	FS	GW	1.570	109.6	< 1.0	Absent	
19	396998	IDEM	DK12198	FS	GW	1.560	108.9	< 1.0	Absent	
20	397003	IDEM	DK12199	FS	GW	1.570	109.6	< 1.0	Absent	
21	397008	IDEM	DK12200	FS	GW	1.590	111.0	< 1.0	Absent	
22	397013	IDEM	DK12201	FS	GW	1.540	107.5	< 1.0	Absent	

Comments:

ENVIRONMENTAL HEALTH LABORATORIES

Page 2 of 2

2,4-D ANALYSIS RESULTS SHEET

Method: Enzyme Immunoassay - Qualitative

Analyst: N. Myers

Instrument ID: B&L Spectronic 21

Run Date: 03/22/99 Run Time: 17:15
LOT # Standard 1: 8G1216

Project(s): IDEM
Enzyme Conjugate: 8G1071

Control Solution:	8G1213
Diluent/Zero Solution:	8G1015
Standard 3:	not used
Standard 2:	not used

Comments:

ENVIRONMENTAL HEALTH LABORATORIES

Page 1 of 2

CARBOFURAN ANALYSIS RESULT SHEET

Method: Enzyme Immunoassay - Qualitative
 Run Date: 03/30/99 Run Time: 14:30
 LOT # Standard 1: not used
 Standard 2: 8I0190a
 Standard 3: 8I0191a
 Control Solution: 8I0192a
 Diluent/Zero Solution: 8F1161

Analyst: N. Myers
 Project(s): IDEM
 Enzyme Conjugate: 8K0076
 Stoping Solution: 8H1191
 Washing Solution: 8F1245
 Color Solution: 8H1077
 Magnetic Particles: 8K0075

Instrument ID: B&L Spectronic 21
 Run ID #: 18054
 Standard Warmup Time:
 Spectronic 21 Setting: 450
 Curve Date: 03/29/99
 Kit Lot : 8K0085
 in use : 03/30/99

Seq Num	LabID#	Client	Sample Description	Sample Type	Matrix	Absorbance (nm)	B3100	B30	Calcd.	Final	% Re	Q
1			Diluent/Zero	0.0 ug/L	LMB	RW	1.640					
2			Diluent/Zero	0.0 ug/L	LMB	RW	1.580					
3			Standard2	1.0 ug/L	ICS	RW	0.764	47.5	0.88	Present	88	
4			Standard2	1.0 ug/L	ICS	RW	0.759	47.1	0.9	Present	90	
5			Control	2.0 ug/L	QCS	RW	0.590	36.6	1.7	Present	85	
6	396944	IDEM	DK12187		FS	GW	1.590	98.8	< 1.0	Absent		
7	396949	IDEM	DK12188		FS	GW	1.600	99.4	< 1.0	Absent		
8	396954	IDEM	DK12189		FS	GW	1.720	106.8	< 1.0	Absent		
9	396959	IDEM	DK12190		FS	GW	1.670	103.7	< 1.0	Absent		
10	396964	IDEM	DK12191		FS	GW	1.690	105.0	< 1.0	Absent		
11	396969	IDEM	DK12192		FS	GW	1.650	102.5	< 1.0	Absent		
12	396974	IDEM	DK12193		FS	GW	1.660	103.1	< 1.0	Absent		
13	396979	IDEM	DK12194		FS	GW	1.650	102.5	< 1.0	Absent		
14	396984	IDEM	DK12195		FS	GW	1.500	93.2	< 1.0	Absent		
15	396989	IDEM	DK12196		FS	GW	1.610	100.0	< 1.0	Absent		
16			Diluent/Zero	0.0 ug/L	LMB	RW	1.495	92.9	< 1.0	Absent		
17			Standard2	1.0 ug/L	CCC	RW	0.709	44.0	1.0	Present	100	
18	396994	IDEM	DK12197		FS	GW	1.630	101.2	< 1.0	Absent		
19	396999	IDEM	DK12198		FS	GW	1.660	103.1	< 1.0	Absent		
20	397004	IDEM	DK12199		FS	GW	1.560	96.9	< 1.0	Absent		
21	397009	IDEM	DK12200		FS	GW	1.660	103.1	< 1.0	Absent		
22	397014	IDEM	DK12201		FS	GW	1.560	96.9	< 1.0	Absent		

After reviewing the attached data packet and the quality control procedures required for this analysis I have indicated the status of the results by placing a green (all OK), yellow (review qc results) or red (run rejected) dot on the front page of this packet.

Comments:

Reviewed By: _____

Date: _____

Finalized By: _____

Date: _____

ENVIRONMENTAL HEALTH LABORATORIES

Page 2 of 2

CARBOFURAN ANALYSIS RESULT SHEET

Method: Enzyme Immunoassay - Qualitative
 Run Date: 03/30/99 Run Time: 14:30
 LOT # Standard 1: not used

Standard 2: 8J0190a
 Standard 3: 8J0191a
 Control Solution: 8J0192a
 Diluent/Zero Solution: 8F1161

Analyst: N. Myers
 Project(s): IDEM
 Enzyme Conjugate: 8K0076
 Stopping Solution: 8H1191
 Washing Solution: 8F1245
 Color Solution: 8H1077
 Magnetic Particles: 8K0075

Instrument ID: B&L Spectronic 21
 Run ID #: 18054
 Standard Warmup Time:
 Spectronic 21 Setting: 450
 Curve Date: 03/29/99
 Kit Lot: 8K0085
 in use : 03/30/99

Seq Num	Lab ID#	Client	Sample Description	Sample Type	Matrix	Absorbance (nm) B3	Ex:100 E0	Calcd. Result	Final Result	% QC	Q
23	397019	IDEM	DK12202	FS	GW	1.690	105.0	< 1.0	Absent		
24	397032	IDEM	DK12203	FS	GW	1.630	101.2	< 1.0	Absent		
25	397039	IDEM	DK12523	FS	GW	1.630	101.2	< 1.0	Absent		
26	397044	IDEM	DK12524	FS	GW	1.540	95.7	< 1.0	Absent		
27	397049	IDEM	DK12525	FS	GW	1.660	103.1	< 1.0	Absent		
28		Diluent/Zero	0.0 ug/L	LMB	RW	1.690	105.0	< 1.0	Absent		
29		Standard2	1.0 ug/L	CCC	RW	0.701	43.5	1.1	Present	110	
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											

After reviewing the attached data packet and the quality control procedures required for this analysis I have indicated the status of the results by placing a green (all OK), yellow (review qc results) or red (run rejected) dot on the front page of this packet.

Comments:

Reviewed By: _____

Date: _____

Finalized By: _____

Date: _____

**PESTICIDES & INDUSTRIAL CHEMICALS EXTENDED - GC/MS TUNING
AND MASS CALIBRATION - Decafluorotriphenylphosphine (DFTPP)**

Lab Name: Environmental Health Laboratories Lab ID: unknown Acq. File: A033199A
 Contract: BAA 97-044 Task: 4A Data Directory: AE\033199A
 Project: IDEM - Pesticide Network Case: n/a Initial Cali File: 0305G0AE
 Column: Restek XTI-5 30m x 0.25mm ID Method: 525.2 Instrument ID: GC/MS - AE

m/e	Ion Abundance Criteria	% Rel Abundance	Q	Matrix	Code
51	10 to 80% of base peak	24.32		Reagent Water	RW
68	< 2% of Mass 69	0.00		Surface Water	SW
70	< 2% of Mass 69	0.00		Drinking Water	DW
127	10 to 80% of base peak	28.88		Ground Water	GW
197	< 2% of Mass 198	0.00		Waste Water	WW
198	base peak or > 50 % of mass 442	100.00		Sediment	SE
199	5 to 9% of mass 198	8.33		Soil	SO
275	10 to 60% of base peak	22.09		Sludge	SL
365	> 1% of base peak	3.92		Other Solvents	OS
441	Present and < mass 443	14.95		TCLP Leachate	TC
442	base peak or > 50 % of mass 198	84.59		Hazardous Waste	HW
443	15 to 24% of mass 442	16.84		Contamination Levels: L=Low M=Medium H=High	

	Sample No. / Sample Description	Data File / Sample ID	Date Analyzed	Time Analyzed	Matrix Code	Contm. Level
1	Tune 1	TI-DFN1	03/31/99	11:18	OS	
2	SPCC	S-525A	03/31/99	11:45	OS	
3	Continuing Calibration Check A	C-2-18A	03/31/99	12:28	OS	
4	Laboratory Method Blank A	MB-525A	03/31/99	13:28	RW	
5	Laboratory Fortified Blank A	FB-525A	03/31/99	14:05	RW	
6	DK 12187	396940	03/31/99	14:43	GW	L
7	DK 12188	396945	03/31/99	15:21	GW	L
8	DK 12189	396950	03/31/99	15:59	GW	L
9	DK 12190	396955	03/31/99	16:38	GW	L
10	DK 12191	396960	03/31/99	17:17	GW	L
11	DK 12192	396965	03/31/99	17:56	GW	L
12	DK 12193	396970	03/31/99	18:37	GW	L
13	DK 12194	396975	03/31/99	19:17	GW	L
14	DK 12195	396980	03/31/99	19:58	GW	L
15	DK 12196	396985	03/31/99	20:40	GW	L
16	Continuing Calibration Check B	C-2-18B	03/31/99	22:06	OS	
17						
18						
19						
20						
21						
22						
23						
24						

Q = A flag or qualifier indicating possible cause for an out of range or failed result.

Comments: _____

**PESTICIDES & INDUSTRIAL CHEMICALS EXTENDED
LABORATORY PERFORMANCE CHECK**

Lab Name: Environmental Health Laboratories	Lab ID: unknown	Acq. File: A033199A
Contract: BAA 97-044	Task: 4A	Data Directory: AE\033199A
Project: IDEM - Pesticide Network	Case: n/a	Initial Cali File: 0305G0AE
Column: Restek XTI-5 30m x 0.25mm ID	Method: 525.2	Instrument ID: GC/MS - AE
Data File: S-525A		

Compound	Test	Conc. ug/ml	Requirements	Result	Pass/Fail	Q
Bromacil	Chromatographic Performance	5.0	0.80 < PGF < 1.20 (a)	1.05	Pass	
Atrazine Prometon	Column Performance	0.15 0.30	Resolution > 0.7 (b)	0.85	Pass	
Endrin	Abundance of degradation to Endrin Aldehyde	2.0	< 10% endrin aldehyde	< 10%	Pass	
4,4' - DDT	Abundance of degradation to 4,4' - DDD & 4,4' - DDE		< 10% 4,4'-DDD & 4,4'-DDE	< 10%	Pass	

Q = A flag or qualifier indicating possible cause for an out of range or failed result.

- (a) PGF - peak Gaussian factor. Calculated using the equation:

$$\text{PGF} = \frac{1.83 \times W(1/2)}{W(1/10)}$$

where W(1/2) is the peak width at half height and W(1/10) is the peak width at tenth height.

- (b) Resolution between the two peaks as defined by the equation:

$$R = \frac{t}{w}$$

where t is the difference in elution times between the two peaks and W is the average peak width, at the baseline, of the two peaks.

Comments: _____

Environmental Health Laboratories

Log for Run: 18383

Run Log

<u>SampleId</u>	<u>Type</u>	<u>Date</u>	<u>Time</u>	<u>Matrix</u>	<u>Method</u>	<u>Analyst</u>	<u>File Name</u>
399175	CCC	1999/03/31	12:28	OS	525.2 - IDEM Net	toms	C-2-18A
399177	LMB	1999/03/31	13:28	RW	525.2 - IDEM Net	toms	MB-525A
399178	LFB	1999/03/31	14:05	RW	525.2 - IDEM Net	toms	FB-525A
396940	FS	1999/03/31	14:43	GW	525.2 - IDEM Net	toms	396940
396945	FS	1999/03/31	15:21	GW	525.2 - IDEM Net	toms	396945
396950	FS	1999/03/31	15:59	GW	525.2 - IDEM Net	toms	396950
396955	FS	1999/03/31	16:38	GW	525.2 - IDEM Net	toms	396955
396960	FS	1999/03/31	17:17	GW	525.2 - IDEM Net	toms	396960
396965	FS	1999/03/31	17:56	GW	525.2 - IDEM Net	toms	396965
396970	FS	1999/03/31	18:37	GW	525.2 - IDEM Net	toms	396970
396975	FS	1999/03/31	19:17	GW	525.2 - IDEM Net	toms	396975
396980	FS	1999/03/31	19:58	GW	525.2 - IDEM Net	toms	396980
396985	FS	1999/03/31	20:40	GW	525.2 - IDEM Net	toms	396985
399176	CCC	1999/03/31	22:06	OS	525.2 - IDEM Net	toms	C-2-18B

**Environmental Health Laboratories
Continuing Calibration Check Check**

File Name: C-2-18A
Acquisition File: A033199A
Data Directory: 033199A
Today's Date: 1999/08/03
Instrument: GC/MS - AE
Extracted Date: Not Available
Sample Number: 399175

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/03/31
Analysis Time: 12:28
Analyst: toms
Results Submitted By: toms
Run Number: 18383

Sample Description: CCC A

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	Limits				
		<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
N/A	IS-Pyrene-d10	5.0	ug/L	100.0	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	Limits						
		<u>Target</u>	<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>	<u>Pass/Fail</u>
34256-82-1	Acetochlor	2.0	1.656	ug/L	82.8	70.0	130.0	PASS
15972-60-8	Alachlor	2.0	1.615	ug/L	80.75	70.0	130.0	PASS
1912-24-9	Atrazine	2.0	1.682	ug/L	84.1	70.0	130.0	PASS
314-40-9	Bromacil	2.0	2.901	ug/L	145.05	70.0	130.0	*FAIL*
21725-46-2	Cyanazine	2.0	1.956	ug/L	97.8	70.0	130.0	PASS
333-41-5	Diazinon	2.0	1.657	ug/L	82.85	70.0	130.0	PASS
959-98-8	Endosulfan I	2.0	1.579	ug/L	78.95	70.0	130.0	PASS
33213-65-9	Endosulfan II	2.0	1.635	ug/L	81.75	70.0	130.0	PASS
1031-07-8	Endosulfan sulfate	2.0	1.643	ug/L	82.15	70.0	130.0	PASS
22224-92-6	Fenamiphos	2.0	3.247	ug/L	162.35	70.0	130.0	*FAIL*
51218-45-2	Metolachlor	2.0	1.577	ug/L	78.85	70.0	130.0	PASS
21087-64-9	Metribuzin	2.0	1.835	ug/L	91.75	70.0	130.0	PASS
40487-42-1	Pendimethalin	2.0	1.855	ug/L	92.75	70.0	130.0	PASS
1610-18-0	Prometon	2.0	1.802	ug/L	90.1	70.0	130.0	PASS
1918-16-7	Propachlor	2.0	1.718	ug/L	85.9	70.0	130.0	PASS
122-34-9	Simazine	2.0	2.465	ug/L	123.25	70.0	130.0	PASS
13071-79-9	Terbufos	2.0	1.67	ug/L	83.5	70.0	130.0	PASS
1582-09-8	Trifluralin	2.0	1.765	ug/L	88.25	70.0	130.0	PASS

Environmental Health Laboratories
Laboratory Method Blank Check

File Name: MB-525A
Acquisition File: A033199A
Data Directory: 033199A
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 399177
Sample Location: Not Available
Sample Description: LMB A L

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/03/31
Analysis Time: 13:28
Analyst: toms
Results Submitted By: toms
Run Number: 18383

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>Units</u>	Limits		
				<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	3.783	ug/L	76.81	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	4.911	ug/L	99.72	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	4.495	ug/L	91.27	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	91.93	70.0	130.0
115-86-6	SS-Triphenylphosphate	4.52	ug/L	91.78	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Environmental Health Laboratories
Laboratory Fortified Blank Check

File Name: FB-525A
Acquisition File: A033199A
Data Directory: 033199A
Today's Date: 1999/08/03
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 399178

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/03/31
Analysis Time: 14:05
Analyst: toms
Results Submitted By: toms
Run Number: 18383

Sample Description: LFB A L

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	Limits				
		<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	4.132	ug/L	78.56	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	5.645	ug/L	107.32	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	4.686	ug/L	89.09	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	78.06	70.0	130.0
115-86-6	SS-Triphenylphosphate	4.809	ug/L	91.43	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	Limits						
		<u>Target</u>	<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>	<u>Pass/Fail</u>
34256-82-1	Acetochlor	1.0	0.898	ug/L	89.8	70.0	130.0	PASS
15972-60-8	Alachlor	1.0	0.853	ug/L	85.3	70.0	130.0	PASS
1912-24-9	Atrazine	1.0	0.903	ug/L	90.3	70.0	130.0	PASS
314-40-9	Bromacil	1.0	1.324	ug/L	132.4	70.0	130.0	*FAIL*
21725-46-2	Cyanazine	1.0	0.979	ug/L	97.9	70.0	130.0	PASS
333-41-5	Diazinon	1.0	0.925	ug/L	92.5	70.0	130.0	PASS
959-98-8	Endosulfan I	1.0	0.845	ug/L	84.5	70.0	130.0	PASS
33213-65-9	Endosulfan II	1.0	0.868	ug/L	86.8	70.0	130.0	PASS
1031-07-8	Endosulfan sulfate	1.0	0.928	ug/L	92.8	70.0	130.0	PASS
22224-92-6	Fenamiphos	1.0	1.416	ug/L	141.6	70.0	130.0	*FAIL*
51218-45-2	Metolachlor	1.0	0.845	ug/L	84.5	70.0	130.0	PASS
21087-64-9	Metribuzin	1.0	0.786	ug/L	78.6	70.0	130.0	PASS
40487-42-1	Pendimethalin	1.0	0.983	ug/L	98.3	70.0	130.0	PASS
1610-18-0	Prometon	1.0	0.893	ug/L	89.3	70.0	130.0	PASS
1918-16-7	Propachlor	1.0	0.902	ug/L	90.2	70.0	130.0	PASS
122-34-9	Simazine	1.0	1.288	ug/L	128.8	70.0	130.0	PASS
13071-79-9	Terbufos	1.0	0.876	ug/L	87.6	70.0	130.0	PASS
1582-09-8	Trifluralin	1.0	0.911	ug/L	91.1	70.0	130.0	PASS

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 396940
Acquisition File: A033199A
Data Directory: 033199A
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 396940
Sample Location: Not Available
Sample Description: IDEM DK12187 L

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/03/31
Analysis Time: 14:43
Analyst: toms
Results Submitted By: toms
Run Number: 18383

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>Units</u>	Limits		
				<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	4.406	ug/L	91.98	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	4.754	ug/L	99.25	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	4.318	ug/L	90.15	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	95.45	70.0	130.0
115-86-6	SS-Triphenylphosphate	4.472	ug/L	93.36	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 396945
Acquisition File: A033199A
Data Directory: 033199A
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 396945
Sample Location: Not Available
Sample Description: IDEM DK12188 L

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/03/31
Analysis Time: 15:21
Analyst: toms
Results Submitted By: toms
Run Number: 18383

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>Units</u>	Limits		
				<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	4.05	ug/L	82.99	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	4.769	ug/L	97.73	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	4.356	ug/L	89.26	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	89.79	70.0	130.0
115-86-6	SS-Triphenylphosphate	4.657	ug/L	95.43	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 396950
Acquisition File: A033199A
Data Directory: 033199A
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 396950
Sample Location: Not Available
Sample Description: IDEM DK12189 L

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/03/31
Analysis Time: 15:59
Analyst: toms
Results Submitted By: toms
Run Number: 18383

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>Units</u>	Limits		
				<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	4.017	ug/L	84.21	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	4.847	ug/L	101.61	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	4.381	ug/L	91.84	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	88.57	70.0	130.0
115-86-6	SS-Triphenylphosphate	4.351	ug/L	91.22	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 396955
Acquisition File: A033199A
Data Directory: 033199A
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 396955
Sample Location: Not Available
Sample Description: IDEM DK12190 L

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/03/31
Analysis Time: 16:38
Analyst: toms
Results Submitted By: toms
Run Number: 18383

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	Limits				
		<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	3.69	ug/L	76.72	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	4.579	ug/L	95.20	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	4.185	ug/L	87.01	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	94.94	70.0	130.0
115-86-6	SS-Triphenylphosphate	4.267	ug/L	88.71	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 396960
Acquisition File: A033199A
Data Directory: 033199A
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 396960
Sample Location: Not Available
Sample Description: IDEM DK12191 L

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/03/31
Analysis Time: 17:17
Analyst: toms
Results Submitted By: toms
Run Number: 18383

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>Units</u>	Limits		
				<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	4.125	ug/L	84.96	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	4.75	ug/L	97.84	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	4.604	ug/L	94.83	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	91.43	70.0	130.0
115-86-6	SS-Triphenylphosphate	4.729	ug/L	97.40	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 396965
Acquisition File: A033199A
Data Directory: 033199A
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 396965
Sample Location: Not Available
Sample Description: IDEM DK12192 L

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/03/31
Analysis Time: 17:56
Analyst: toms
Results Submitted By: toms
Run Number: 18383

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>Units</u>	Limits		
				<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	3.932	ug/L	81.32	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	4.795	ug/L	99.17	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	4.27	ug/L	88.31	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	101.96	70.0	130.0
115-86-6	SS-Triphenylphosphate	4.348	ug/L	89.93	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 396970
Acquisition File: A033199A
Data Directory: 033199A
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 396970
Sample Location: Not Available
Sample Description: IDEM DK12193 L

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/03/31
Analysis Time: 18:37
Analyst: toms
Results Submitted By: toms
Run Number: 18383

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>Units</u>	Limits		
				<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	3.975	ug/L	82.21	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	4.707	ug/L	97.35	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	4.327	ug/L	89.49	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	99.00	70.0	130.0
115-86-6	SS-Triphenylphosphate	4.726	ug/L	97.75	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 396975
Acquisition File: A033199A
Data Directory: 033199A
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 396975
Sample Location: Not Available
Sample Description: IDEM DK12194 L

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/03/31
Analysis Time: 19:17
Analyst: toms
Results Submitted By: toms
Run Number: 18383

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	Limits				
		<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	3.914	ug/L	80.95	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	4.728	ug/L	97.79	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	4.468	ug/L	92.41	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	97.63	70.0	130.0
115-86-6	SS-Triphenylphosphate	6.015	ug/L	124.41	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 396980
Acquisition File: A033199A
Data Directory: 033199A
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 396980
Sample Location: Not Available
Sample Description: IDEM DK12195 L

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/03/31
Analysis Time: 19:58
Analyst: toms
Results Submitted By: toms
Run Number: 18383

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>Units</u>	Limits		
				<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	3.962	ug/L	81.69	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	4.717	ug/L	97.26	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	4.419	ug/L	91.11	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	95.91	70.0	130.0
115-86-6	SS-Triphenylphosphate	4.522	ug/L	93.24	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 396985
Acquisition File: A033199A
Data Directory: 033199A
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 396985
Sample Location: Not Available
Sample Description: IDEM DK12196 L

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/03/31
Analysis Time: 20:40
Analyst: toms
Results Submitted By: toms
Run Number: 18383

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	Limits				
		<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	3.689	ug/L	75.75	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	4.33	ug/L	88.91	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	3.908	ug/L	80.25	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	97.75	70.0	130.0
115-86-6	SS-Triphenylphosphate	3.824	ug/L	78.52	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

**Environmental Health Laboratories
Continuing Calibration Check Check**

File Name: C-2-18B
Acquisition File: A033199A
Data Directory: 033199A
Today's Date: 1999/08/03
Instrument: GC/MS - AE
Extracted Date: Not Available
Sample Number: 399176

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/03/31
Analysis Time: 22:06
Analyst: toms
Results Submitted By: toms
Run Number: 18383

Sample Description: CCC B

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	Limits				
		<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
N/A	IS-Pyrene-d10	5.0	ug/L	73.76	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	Limits						
		<u>Target</u>	<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>	<u>Pass/Fail</u>
34256-82-1	Acetochlor	2.0	1.644	ug/L	82.2	70.0	130.0	PASS
15972-60-8	Alachlor	2.0	1.648	ug/L	82.4	70.0	130.0	PASS
1912-24-9	Atrazine	2.0	1.75	ug/L	87.5	70.0	130.0	PASS
314-40-9	Bromacil	2.0	2.165	ug/L	108.25	70.0	130.0	PASS
21725-46-2	Cyanazine	2.0	1.849	ug/L	92.45	70.0	130.0	PASS
333-41-5	Diazinon	2.0	1.797	ug/L	89.85	70.0	130.0	PASS
959-98-8	Endosulfan I	2.0	1.601	ug/L	80.05	70.0	130.0	PASS
33213-65-9	Endosulfan II	2.0	1.609	ug/L	80.45	70.0	130.0	PASS
1031-07-8	Endosulfan sulfate	2.0	1.661	ug/L	83.05	70.0	130.0	PASS
22224-92-6	Fenamiphos	2.0	2.547	ug/L	127.35	70.0	130.0	PASS
51218-45-2	Metolachlor	2.0	1.617	ug/L	80.85	70.0	130.0	PASS
21087-64-9	Metribuzin	2.0	1.779	ug/L	88.95	70.0	130.0	PASS
40487-42-1	Pendimethalin	2.0	1.819	ug/L	90.95	70.0	130.0	PASS
1610-18-0	Prometon	2.0	1.798	ug/L	89.9	70.0	130.0	PASS
1918-16-7	Propachlor	2.0	1.656	ug/L	82.8	70.0	130.0	PASS
122-34-9	Simazine	2.0	2.449	ug/L	122.45	70.0	130.0	PASS
13071-79-9	Terbufos	2.0	1.623	ug/L	81.15	70.0	130.0	PASS
1582-09-8	Trifluralin	2.0	1.761	ug/L	88.05	70.0	130.0	PASS

08/02/99

**Environmental Health Laboratories
Semi-Volatile Organic Chemicals
Internal Standard Percent Recovery**

	IS1 Area	IS1 RT
CCC Standard	3391043	16.766
CCC Upper Limit	4408355.9	N/A
CCC Lower Limit	2373730.1	N/A
Init Cal Lower Limit	N/A	N/A

Sample No.	Filename	IS1 Area	Q	IS1 RT	Q	IS1 %Rec	Q	Matrix
1. 399177 / LMB	MB-525A	3117348		16.7651		91.93		RW
2. 399178 / LFB	FB-525A	2647135		16.7816		78.06		RW
3. 396940 / FS	396940	3236703		16.7825		95.45		GW
4. 396945 / FS	396945	3044983		16.7816		89.79		GW
5. 396950 / FS	396950	3003483		16.7825		88.57		GW
6. 396955 / FS	396955	3219522		16.7834		94.94		GW
7. 396960 / FS	396960	3100423		16.7834		91.43		GW
8. 396965 / FS	396965	3457470		16.7816		101.96		GW
9. 396970 / FS	396970	3357210		16.7816		99.00		GW
10. 396975 / FS	396975	3310824		16.7834		97.63		GW
11. 396980 / FS	396980	3252401		16.7816		95.91		GW
12. 396985 / FS	396985	3314699		16.7999		97.75		GW
13. 399176 / CCC	C-2-18B	2501181		16.7816		73.76		OS

IS1 = IS-Pyrene-d10
Q = Out of Range

Environmental Health Laboratories
Semi-Volatile Organic Chemicals
Surrogate Percent Recovery

Sample No. / Desc	Filename	SS1	target	%Rec	Q	SS2	target	%Rec	Q	SS3	target	%Rec	Q	SS4	target	%Rec	Q	SS4	target	%Rec	Q	Tot Matrix			
1. 399177 / LMB	MB-525A	3.783	5.0	76.81	4.911	5.0	99.72	4.495	5.0	91.27	4.52	5.0	91.78	0	RW										
2. 399178 / LFB	FB-525A	4.132	5.0	78.56	5.645	5.0	107.32	4.686	5.0	89.09	4.809	5.0	91.43	0	RW										
3. 396940 / FS	396940	4.406	5.0	91.98	4.754	5.0	99.25	4.318	5.0	90.15	4.472	5.0	93.36	0	GW										
4. 396945 / FS	396945	4.05	5.0	82.99	4.769	5.0	97.73	4.356	5.0	89.26	4.657	5.0	95.43	0	GW										
5. 396950 / FS	396950	4.017	5.0	84.21	4.847	5.0	101.61	4.381	5.0	91.84	4.351	5.0	91.22	0	GW										
6. 396955 / FS	396955	3.69	5.0	76.72	4.579	5.0	95.20	4.185	5.0	87.01	4.267	5.0	88.71	0	GW										
7. 396960 / FS	396960	4.125	5.0	84.96	4.75	5.0	97.84	4.604	5.0	94.83	4.729	5.0	97.40	0	GW										
8. 396965 / FS	396965	3.932	5.0	81.32	4.795	5.0	99.17	4.27	5.0	88.31	4.348	5.0	89.93	0	GW										
9. 396970 / FS	396970	3.975	5.0	82.21	4.707	5.0	97.35	4.327	5.0	89.49	4.726	5.0	97.75	0	GW										
10. 396975 / FS	396975	3.914	5.0	80.95	4.728	5.0	97.79	4.468	5.0	92.41	6.015	5.0	124.41	0	GW										
11. 396980 / FS	396980	3.962	5.0	81.69	4.717	5.0	97.26	4.419	5.0	91.11	4.522	5.0	93.24	0	GW										
12. 396985 / FS	396985	3.689	5.0	75.75	4.33	5.0	88.91	3.908	5.0	80.25	3.824	5.0	78.52	0	GW										

SS1 = SS-2,4,5,6-Tetrachloro-m-xylene

SS2 = SS-4,4'-Dichlorobiphenyl

SS3 = SS-Pentachloronitrobenzene

SS4 = SS-Triphenyphosphate

Q = Out of Range

**PESTICIDES & INDUSTRIAL CHEMICALS EXTENDED
INITIAL CALIBRATION**

Lab Name:	Environmental Health Laboratories	Lab ID:	unknown	Acq. File:	A033199A
Contract:	BAA 97-044	Task:	4A	Data Directory:	AE\033199A
Project:	IDEML - Pesticide Network	Case:	n/a	Initial Cali File:	0305G0AE
Column:	Restek XTI-5 30m x 0.25mm ID	Method:	525.2	Instrument ID:	GC/MS - AE

Data File / Sample ID:	I005-18A	I-01-18A	I-05-18A	I-1-18A	I-2-18A	I-5-18A	I-10-18A	I-25-18A	I-50-18A	I-100-18A	Avg	% RSD	Corr Coeff	Q
Concentration (ug/L):	0.05	0.1	0.5	1	2	5	10	25	50	100	Rf	Rf	Rf	
Compound	Rf	Rf	Rf	Rf	Rf	Rf	Rf	Rf	Rf	Rf				
Acetochlor	----	0.214	0.256	0.310	0.311	0.318	0.323	0.315	----	----	0.292	14.2	0.9188	*
Alachlor	----	0.957	1.084	1.189	1.263	1.291	1.318	1.238	----	----	1.191	10.8	0.9964	
Atrazine	----	0.284	0.379	0.438	0.454	0.454	0.441	----	----	----	0.408	16.5	1.0000	
Bromacil	----	0.212	0.198	0.351	0.488	0.759	0.825	0.894	----	----	0.532	55.1	0.9766	*
Cyanazine	----	0.161	0.164	0.262	0.297	0.346	0.373	0.405	----	----	0.287	33.8	0.9188	*
Diazinon	----	0.999	0.940	1.054	1.091	1.004	0.976	----	----	----	1.011	5.4	0.9015	
Endosulfan I	----	0.247	0.247	0.250	0.280	0.272	0.295	0.286	----	----	0.268	7.4	0.9188	
Endosulfan II	----	0.277	0.256	0.259	0.318	0.319	0.321	0.323	----	----	0.296	10.4	0.9188	
Endosulfan sulfate	----	0.220	0.208	0.215	0.243	0.249	0.268	0.281	----	----	0.241	11.4	0.9188	
Fenamiphos	----	0.126	0.149	0.239	0.341	0.618	0.718	0.819	----	----	0.430	66.1	0.9766	*
Metolachlor	----	2.018	2.274	2.610	2.866	2.845	2.868	2.505	----	----	2.569	12.8	0.9986	
Metribuzin	----	0.292	0.403	0.486	0.576	0.629	0.654	0.670	----	----	0.530	26.9	0.9822	
Pendimethalin	----	0.240	0.329	0.442	0.514	0.570	0.592	0.600	----	----	0.470	29.8	0.9747	
Prometon	----	0.610	0.755	0.914	1.007	0.993	0.962	0.710	----	----	0.850	18.5	0.9822	
Propachlor	----	0.583	0.606	0.704	0.778	0.782	0.770	0.692	----	----	0.702	11.7	0.9822	
Simazine	----	0.058	0.062	0.136	0.178	0.240	0.255	0.259	----	----	0.170	51.2	0.9188	*
Terbufos	----	1.093	1.116	1.269	1.358	1.397	1.463	1.428	----	----	1.303	11.4	0.9928	
Trifluralin	----	0.835	0.816	0.942	1.029	1.101	1.212	1.149	----	----	1.012	15.2	0.9971	

Avg RF = Average response factor

Max %RSD = 30% for a linear fit

Q = A flag or qualifier indicating possible cause for an out of range or failed result.

Comments: _____

DETERMINATION OF METHOD DETECTION LIMITS
METHOD 525.2 Extended - BROAD SPECTRUM PESTICIDES

Lab Name: Environmental Health Laboratories
 Contract: n/a
 Project: Routine MDL
 Column: Restek XTI-5 30m x 0.25mm ID
 Matrix Code: RW

Lab ID:	unknown	Acq. File:	A032598A
Task:	n/a	Data Directory:	AE\032598A
Case :	n/a	Initial Cali Data:	0220FOAE
Method:	525.2C	Instrument ID:	GC/MS - AE

Method	CAS #	Parameter	Target	Observed\Recovery							Std.	Calcd.	MDL	Units
				Rep=1	Rep=2	Rep=3	Rep=4	Rep=5	Rep=6	Rep=7				
525.2	34256-82-1	Acetochlor	0.1	0.097	0.111	0.096	0.086	0.103	0.104	0.099	0.078	0.025	ug/L	
525.2	15972-60-8	Alachlor	0.1	0.124	0.119	0.128	0.120	0.129	0.121	0.127	0.041	0.013	ug/L	
525.2	1912-24-9	Atrazine	0.1	0.101	0.098	0.110	0.097	0.101	0.105	0.103	0.044	0.014	ug/L	
525.2	314-40-9	Bromacil	0.1	0.216	0.223	0.208	0.211	0.205	0.222	0.216	0.068	0.021	ug/L	
525.2	21725-46-2	Cyanazine	0.1	0.108	0.121	0.096	0.109	0.108	0.110	0.109	0.073	0.023	ug/L	
525.2	333-41-5	Diazinon	0.1	0.289	0.278	0.283	0.286	0.282	0.265	0.252	0.0133	0.042	ug/L	
525.2	959-98-8	Endosulfan I	0.1	0.142	0.142	0.123	0.140	0.129	0.130	0.130	0.075	0.024	ug/L	
525.2	33213-65-9	Endosulfan II	0.1	0.104	0.119	0.090	0.129	0.086	0.100	0.094	0.0157	0.049	ug/L	
525.2	1031-07-8	Endosulfan Sulfate	0.1	0.096	0.097	0.095	0.110	0.099	0.092	0.128	0.0126	0.040	ug/L	
525.2	22224-92-6	Fenamiphos	0.1	0.108	0.118	0.129	0.122	0.127	0.116	0.118	0.071	0.022	ug/L	
525.2	51218-45-2	Metolachlor	0.1	0.122	0.118	0.125	0.122	0.120	0.126	0.126	0.031	0.010	ug/L	
525.2	21087-64-9	Metribuzin	0.1	0.093	0.091	0.096	0.091	0.099	0.095	0.093	0.029	0.009	ug/L	
525.2	40487-42-1	Pendimethalin	0.1	0.095	0.099	0.096	0.102	0.103	0.096	0.094	0.035	0.011	ug/L	
525.2	1610-18-0	Prometon	0.1	0.084	0.069	0.068	0.070	0.057	0.046	0.066	0.0118	0.037	ug/L	
525.2	1918-16-7	Propachlor	0.1	0.119	0.106	0.119	0.103	0.117	0.119	0.070	0.022	ug/L		
525.2	122-34-9	Simazine	0.1	0.122	0.113	0.103	0.096	0.102	0.109	0.111	0.085	0.027	ug/L	
525.2	13071-79-9	Terbufos	0.1	0.117	0.103	0.128	0.097	0.132	0.126	0.126	0.0135	0.042	ug/L	
525.2	1582-09-8	Trifluralin	0.1	0.139	0.138	0.140	0.129	0.134	0.143	0.145	0.054	0.017	ug/L	

Q = A flag or qualifier indicating possible cause for an out of range or failed result.

Comments _____

**PESTICIDES & INDUSTRIAL CHEMICALS EXTENDED - GC/MS TUNING
AND MASS CALIBRATION - Decafluorotriphenylphosphine (DFTPP)**

Lab Name: Environmental Health Laboratories Lab ID: unknown Acq. File: A041699A
Contract: BAA 97-044 Task: 4A Data Directory: AE041699A
Project: IDEM - Pesticide Network Case: n/a Initial Cali File: 0305G0AE
Column: Restek XTI-5 30m x 0.25mm ID Method: 525.2 Instrument ID: GC/MS - AE

m/e	Ion Abundance Criteria	% Rel Abundance	Q	Matrix	Code	
51	10 to 80% of base peak	25.98		Reagent Water	RW	
68	< 2% of Mass 69	0.00		Surface Water	SW	
70	< 2% of Mass 69	0.00		Drinking Water	DW	
127	10 to 80% of base peak	27.55		Ground Water	GW	
197	< 2% of Mass 198	0.00		Waste Water	WW	
198	base peak or > 50 % of mass 442	100.00		Sediment	SE	
199	5 to 9% of mass 198	7.81		Soil	SO	
275	10 to 60% of base peak	18.49		Sludge	SL	
365	> 1% of base peak	3.90		Other Solvents	OS	
441	Present and < mass 443	13.31		TCLP Leachate	TC	
442	base peak or > 50 % of mass 198	63.99		Hazardous Waste	HW	
443	15 to 24% of mass 442	17.80		Contamination Levels: L=Low M=Medium H=High		
	Sample No. / Sample Description	Data File / Sample ID	Date Analyzed	Time Analyzed	Matrix Code	
1	Tune 1	TI-DFN1	04/16/99	14:25	OS	
2	Continuing Calibration Check A	C-2-18A	04/16/99	15:24	OS	
3	Laboratory Method Blank A	MB-525A	04/16/99	16:22	RW	
4	Laboratory Fortified Blank A	FB-525A	04/16/99	16:57	RW	
5	DK 12197	396990	04/16/99	17:33	GW	L
6	DK 12198	396995	04/16/99	18:08	GW	L
7	DK 12199	397000	04/16/99	18:43	GW	L
8	DK 12200	397005	04/16/99	19:18	GW	L
9	DK 12201	397010	04/16/99	19:53	GW	L
10	DK 12202	397015	04/16/99	20:28	GW	L
11	DK 12203	397020	04/16/99	21:03	GW	L
12	DK 12523	397035	04/16/99	22:13	GW	L
13	DK 12524	397040	04/16/99	22:48	GW	L
14	DK 12525	397045	04/16/99	23:23	GW	L
15	Continuing Calibration Check B	C-2-18B	04/17/99	00:34	OS	
16						
17						
18						
19						
20						
21						
22						
23						
24						

Q = A flag or qualifier indicating possible cause for an out of range or failed result.

Comments: _____

**PESTICIDES & INDUSTRIAL CHEMICALS EXTENDED
LABORATORY PERFORMANCE CHECK**

Lab Name: Environmental Health Laboratories	Lab ID: unknown	Acq. File: A041699A
Contract: BAA 97-044	Task: 4A	Data Directory: AE\041699A
Project: IDEM - Pesticide Network	Case: n/a	Initial Cali File: 0305G0AE
Column: Restek XTI-5 30m x 0.25mm ID	Method: 525.2	Instrument ID: GC/MS - AE
Data File: S-525A		

Compound	Test	Conc. ug/ml	Requirements	Result	Pass/Fail	Q
Bromacil	Chromatographic Performance	5.0	0.80 < PGF < 1.20 (a)	0.73	Fail	*
Atrazine Prometon	Column Performance	0.15 0.30	Resolution > 0.7 (b)	0.970	Pass	
Endrin	Abundance of degradation to Endrin Aldehyde	2.0	< 10% endrin aldehyde	---	---	*
4,4' - DDT	Abundance of degradation to 4,4' - DDD & 4,4' - DDE		< 10% 4,4'-DDD & 4,4'-DDE	---	---	*

ND = Not determined

Q = A flag or qualifier indicating possible cause for an out of range or failed result.

(a) PGF - peak Gaussian factor. Calculated using the equation:

$$\text{PGF} = \frac{1.83 \times W(1/2)}{W(1/10)}$$

where W(1/2) is the peak width at half height and W(1/10) is the peak width at tenth height.

(b) Resolution between the two peaks as defined by the equation:

$$R = \frac{t}{w}$$

where t is the difference in elution times between the two peaks and W is the average peak width, at the baseline, of the two peaks.

Comments: _____

Environmental Health Laboratories
Log for Run: 18619

Run Log

<u>SampleId</u>	<u>Type</u>	<u>Date</u>	<u>Time</u>	<u>Matrix</u>	<u>Method</u>	<u>Analyst</u>	<u>File Name</u>
399179	CCC	1999/04/16	15:24	OS	525.2	toms	C-2-18A
399181	LMB	1999/04/16	16:22	RW	525.2	toms	MB-525A
399182	LFB	1999/04/16	16:57	RW	525.2	toms	FB-525A
396990	FS	1999/04/16	17:33	GW	525.2	toms	396990
396995	FS	1999/04/16	18:08	GW	525.2	toms	396995
397000	FS	1999/04/16	18:43	GW	525.2	toms	397000
397005	FS	1999/04/16	19:18	GW	525.2	toms	397005
397010	FS	1999/04/16	19:53	GW	525.2	toms	397010
397015	FS	1999/04/16	20:28	GW	525.2	toms	397015
397020	FS	1999/04/16	21:03	GW	525.2	toms	397020
397035	FS	1999/04/16	22:13	GW	525.2	toms	397035
397040	FS	1999/04/16	22:48	GW	525.2	toms	397040
397045	FS	1999/04/16	23:23	GW	525.2	toms	397045
399180	CCC	1999/04/17	00:34	OS	525.2	toms	C-2-18B

**Environmental Health Laboratories
Continuing Calibration Check Check**

File Name: C-2-18A
Acquisition File: T043099A
Data Directory: 041699A
Today's Date: 1999/08/03
Instrument: GC/MS - AE
Extracted Date: Not Available
Sample Number: 399179

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/04/16
Analysis Time: 15:24
Analyst: toms
Results Submitted By: toms
Run Number: 18619

Sample Description: CCC A

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	Limits				
		<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
N/A	IS-Pyrene-d10	5.0	ug/L	100.0	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	Limits						
		<u>Target</u>	<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>	<u>Pass/Fail</u>
34256-82-1	Acetochlor	2.0	1.651	ug/L	82.55	70.0	130.0	PASS
15972-60-8	Alachlor	2.0	1.646	ug/L	82.3	70.0	130.0	PASS
1912-24-9	Atrazine	2.0	1.673	ug/L	83.65	70.0	130.0	PASS
314-40-9	Bromacil	2.0	2.325	ug/L	116.25	70.0	130.0	PASS
21725-46-2	Cyanazine	2.0	1.77	ug/L	88.5	70.0	130.0	PASS
333-41-5	Diazinon	2.0	1.746	ug/L	87.3	70.0	130.0	PASS
959-98-8	Endosulfan I	2.0	1.664	ug/L	83.2	70.0	130.0	PASS
33213-65-9	Endosulfan II	2.0	1.691	ug/L	84.55	70.0	130.0	PASS
1031-07-8	Endosulfan sulfate	2.0	1.649	ug/L	82.45	70.0	130.0	PASS
22224-92-6	Fenamiphos	2.0	2.65	ug/L	132.5	70.0	130.0	*FAIL*
51218-45-2	Metolachlor	2.0	1.6	ug/L	80.0	70.0	130.0	PASS
21087-64-9	Metribuzin	2.0	1.75	ug/L	87.5	70.0	130.0	PASS
40487-42-1	Pendimethalin	2.0	1.713	ug/L	85.65	70.0	130.0	PASS
1610-18-0	Prometon	2.0	1.782	ug/L	89.1	70.0	130.0	PASS
1918-16-7	Propachlor	2.0	1.64	ug/L	82.0	70.0	130.0	PASS
122-34-9	Simazine	2.0	2.328	ug/L	116.4	70.0	130.0	PASS
13071-79-9	Terbufos	2.0	1.636	ug/L	81.8	70.0	130.0	PASS
1582-09-8	Trifluralin	2.0	1.672	ug/L	83.6	70.0	130.0	PASS

Environmental Health Laboratories
Laboratory Method Blank Check

File Name: MB-525A
Acquisition File: T043099A
Data Directory: 041699A
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 399181
Sample Location: Not Available
Sample Description: LMB A L

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/04/16
Analysis Time: 16:22
Analyst: toms
Results Submitted By: toms
Run Number: 18619

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	Limits				
		<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	3.865	ug/L	78.48	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	4.382	ug/L	88.97	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	4.275	ug/L	86.80	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	99.15	70.0	130.0
115-86-6	SS-Triphenylphosphate	4.692	ug/L	95.27	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

**Environmental Health Laboratories
Laboratory Fortified Blank Check**

File Name: FB-525A
Acquisition File: T043099A
Data Directory: 041699A
Today's Date: 1999/08/03
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 399182

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/04/16
Analysis Time: 16:57
Analyst: toms
Results Submitted By: toms
Run Number: 18619

Sample Description: LFB A L

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	Limits				
		<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	4.388	ug/L	83.42	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	5.416	ug/L	102.97	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	4.676	ug/L	88.90	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	94.90	70.0	130.0
115-86-6	SS-Triphenylphosphate	5.136	ug/L	97.64	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	Limits					<u>Pass/Fail</u>	
		<u>Target</u>	<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>	
34256-82-1	Acetochlor	1.0	0.877	ug/L	87.7	70.0	130.0	PASS
15972-60-8	Alachlor	1.0	0.881	ug/L	88.1	70.0	130.0	PASS
1912-24-9	Atrazine	1.0	0.902	ug/L	90.2	70.0	130.0	PASS
314-40-9	Bromacil	1.0	1.432	ug/L	143.2	70.0	130.0	*FAIL*
21725-46-2	Cyanazine	1.0	0.917	ug/L	91.7	70.0	130.0	PASS
333-41-5	Diazinon	1.0	0.936	ug/L	93.6	70.0	130.0	PASS
959-98-8	Endosulfan I	1.0	0.868	ug/L	86.8	70.0	130.0	PASS
33213-65-9	Endosulfan II	1.0	0.878	ug/L	87.8	70.0	130.0	PASS
1031-07-8	Endosulfan sulfate	1.0	0.894	ug/L	89.4	70.0	130.0	PASS
22224-92-6	Fenamiphos	1.0	1.077	ug/L	107.7	70.0	130.0	PASS
51218-45-2	Metolachlor	1.0	0.853	ug/L	85.3	70.0	130.0	PASS
21087-64-9	Metribuzin	1.0	0.739	ug/L	73.9	70.0	130.0	PASS
40487-42-1	Pendimethalin	1.0	0.875	ug/L	87.5	70.0	130.0	PASS
1610-18-0	Prometon	1.0	0.903	ug/L	90.3	70.0	130.0	PASS
1918-16-7	Propachlor	1.0	0.896	ug/L	89.6	70.0	130.0	PASS
122-34-9	Simazine	1.0	1.306	ug/L	130.6	70.0	130.0	*FAIL*
13071-79-9	Terbufos	1.0	0.891	ug/L	89.1	70.0	130.0	PASS
1582-09-8	Trifluralin	1.0	0.85	ug/L	85.0	70.0	130.0	PASS

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 396990
Acquisition File: T043099A
Data Directory: 041699A
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 396990
Sample Location: Not Available
Sample Description: IDEM DK12197 L

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/04/16
Analysis Time: 17:33
Analyst: toms
Results Submitted By: toms
Run Number: 18619

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	Limits				
		<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	4.024	ug/L	82.46	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	4.717	ug/L	96.66	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	4.616	ug/L	94.59	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	133.97	70.0	130.0
115-86-6	SS-Triphenylphosphate	4.716	ug/L	96.64	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 396995
Acquisition File: T043099A
Data Directory: 041699A
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 396995
Sample Location: Not Available
Sample Description: IDEM DK12198 L

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/04/16
Analysis Time: 18:08
Analyst: toms
Results Submitted By: toms
Run Number: 18619

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>Units</u>	Limits		
				<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	4.244	ug/L	86.79	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	4.725	ug/L	96.63	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	4.544	ug/L	92.92	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	125.37	70.0	130.0
115-86-6	SS-Triphenylphosphate	4.584	ug/L	93.74	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 397000
Acquisition File: T043099A
Data Directory: 041699A
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 397000
Sample Location: Not Available
Sample Description: IDEM DK12199 L

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/04/16
Analysis Time: 18:43
Analyst: toms
Results Submitted By: toms
Run Number: 18619

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	Limits				
		<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	4.408	ug/L	89.78	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	4.816	ug/L	98.09	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	4.499	ug/L	91.63	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	132.05	70.0	130.0
115-86-6	SS-Triphenylphosphate	5.356	ug/L	109.08	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 397005
Acquisition File: T043099A
Data Directory: 041699A
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 397005
Sample Location: Not Available
Sample Description: IDEM DK12200 L

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/04/16
Analysis Time: 19:18
Analyst: toms
Results Submitted By: toms
Run Number: 18619

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	Limits				
		<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	4.111	ug/L	84.33	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	4.827	ug/L	99.02	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	4.546	ug/L	93.25	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	127.20	70.0	130.0
115-86-6	SS-Triphenylphosphate	5.782	ug/L	118.61	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 397010
Acquisition File: T043099A
Data Directory: 041699A
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 397010
Sample Location: Not Available
Sample Description: IDEM DK12201 L

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/04/16
Analysis Time: 19:53
Analyst: toms
Results Submitted By: toms
Run Number: 18619

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	Limits				
		<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	4.273	ug/L	85.98	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	4.785	ug/L	96.28	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	4.39	ug/L	88.33	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	152.34	70.0	130.0
115-86-6	SS-Triphenylphosphate	4.67	ug/L	93.96	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 397015
Acquisition File: T043099A
Data Directory: 041699A
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 397015
Sample Location: Not Available
Sample Description: IDEM DK12202 L

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/04/16
Analysis Time: 20:28
Analyst: toms
Results Submitted By: toms
Run Number: 18619

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	Limits				
		<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	3.564	ug/L	71.78	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	4.33	ug/L	87.21	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	4.103	ug/L	82.64	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	114.69	70.0	130.0
115-86-6	SS-Triphenylphosphate	4.694	ug/L	94.54	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 397020
Acquisition File: T043099A
Data Directory: 041699A
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 397020
Sample Location: Not Available
Sample Description: IDEM DK12203 L

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/04/16
Analysis Time: 21:03
Analyst: toms
Results Submitted By: toms
Run Number: 18619

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	Limits				
		<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	4.017	ug/L	82.4	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	4.613	ug/L	94.63	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	4.481	ug/L	91.92	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	117.82	70.0	130.0
115-86-6	SS-Triphenylphosphate	4.6	ug/L	94.36	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 397035	Method: 525.2
Acquisition File: T043099A	Calibration File: 0305G0AE
Data Directory: 041699A	Analysis Date: 1999/04/16
Instrument: GC/MS - AE	Analysis Time: 22:13
Extracted Date: 1999/03/23	Analyst: toms
Sample Number: 397035	Results Submitted By: toms
Sample Location: Not Available	Run Number: 18619
Sample Description: IDEM DK12523 L	

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>Units</u>	Limits		
				<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	4.291	ug/L	87.75	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	4.654	ug/L	95.17	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	4.509	ug/L	92.21	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	130.30	70.0	130.0
115-86-6	SS-Triphenylphosphate	4.312	ug/L	88.18	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 397040
Acquisition File: T043099A
Data Directory: 041699A
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 397040
Sample Location: Not Available
Sample Description: IDEM DK12524 L

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/04/16
Analysis Time: 22:48
Analyst: toms
Results Submitted By: toms
Run Number: 18619

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	Limits				
		<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	3.507	ug/L	40.06	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	5.533	ug/L	63.20	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	7.646	ug/L	87.33	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	115.16	70.0	130.0
115-86-6	SS-Triphenylphosphate	6.602	ug/L	75.41	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.2	ug/L
15972-60-8	Alachlor	<	0.2	ug/L
1912-24-9	Atrazine	<	0.2	ug/L
314-40-9	Bromacil	<	0.2	ug/L
21725-46-2	Cyanazine	<	0.2	ug/L
333-41-5	Diazinon	<	0.2	ug/L
959-98-8	Endosulfan I	<	0.2	ug/L
33213-65-9	Endosulfan II	<	0.2	ug/L
1031-07-8	Endosulfan sulfate	<	0.2	ug/L
22224-92-6	Fenamiphos	<	0.2	ug/L
51218-45-2	Metolachlor	<	0.2	ug/L
21087-64-9	Metribuzin	<	0.2	ug/L
40487-42-1	Pendimethalin	<	0.2	ug/L
1610-18-0	Prometon	<	0.2	ug/L
1918-16-7	Propachlor	<	0.2	ug/L
122-34-9	Simazine	<	0.12	ug/L
13071-79-9	Terbufos	<	0.2	ug/L
1582-09-8	Trifluralin	<	0.2	ug/L

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 397045
Acquisition File: T043099A
Data Directory: 041699A
Instrument: GC/MS - AE
Extracted Date: 1999/03/23
Sample Number: 397045
Sample Location: Not Available
Sample Description: IDEM DK12525 L

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/04/16
Analysis Time: 23:23
Analyst: toms
Results Submitted By: toms
Run Number: 18619

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>Units</u>	Limits		
				<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
877-09-8	SS-2,4,5,6-Tetrachloro-m-xylene	4.09	ug/L	82.63	70.0	130.0
2050-68-2	SS-4,4'-Dichlorobiphenyl	4.835	ug/L	97.68	70.0	130.0
82-68-8	SS-Pentachloronitrobenzene	4.619	ug/L	93.31	70.0	130.0
N/A	IS-Pyrene-d10	5.0	ug/L	122.95	70.0	130.0
115-86-6	SS-Triphenylphosphate	6.848	ug/L	138.34	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

**Environmental Health Laboratories
Continuing Calibration Check Check**

File Name: C-2-18B
Acquisition File: T043099A
Data Directory: 041699A
Today's Date: 1999/08/03
Instrument: GC/MS - AE
Extracted Date: Not Available
Sample Number: 399180

Method: 525.2
Calibration File: 0305G0AE
Analysis Date: 1999/04/17
Analysis Time: 00:34
Analyst: toms
Results Submitted By: toms
Run Number: 18619

Sample Description: CCC B

Sample Quality Control

<u>CAS No.</u>	<u>Parameter</u>	Limits				
		<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>
N/A	IS-Pyrene-d10	5.0	ug/L	141.72	70.0	130.0

Ordered Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Target</u>	Limits					
			<u>Amount</u>	<u>Units</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>	
34256-82-1	Acetochlor	2.0	1.659	ug/L	82.95	70.0	130.0	PASS
15972-60-8	Alachlor	2.0	1.698	ug/L	84.9	70.0	130.0	PASS
1912-24-9	Atrazine	2.0	1.712	ug/L	85.6	70.0	130.0	PASS
314-40-9	Bromacil	2.0	2.528	ug/L	126.4	70.0	130.0	PASS
21725-46-2	Cyanazine	2.0	1.977	ug/L	98.85	70.0	130.0	PASS
333-41-5	Diazinon	2.0	1.711	ug/L	85.55	70.0	130.0	PASS
959-98-8	Endosulfan I	2.0	1.612	ug/L	80.6	70.0	130.0	PASS
33213-65-9	Endosulfan II	2.0	1.675	ug/L	83.75	70.0	130.0	PASS
1031-07-8	Endosulfan sulfate	2.0	1.722	ug/L	86.1	70.0	130.0	PASS
22224-92-6	Fenamiphos	2.0	3.293	ug/L	164.65	70.0	130.0	*FAIL*
51218-45-2	Metolachlor	2.0	1.626	ug/L	81.3	70.0	130.0	PASS
21087-64-9	Metribuzin	2.0	1.886	ug/L	94.3	70.0	130.0	PASS
40487-42-1	Pendimethalin	2.0	1.898	ug/L	94.9	70.0	130.0	PASS
1610-18-0	Prometon	2.0	1.807	ug/L	90.35	70.0	130.0	PASS
1918-16-7	Propachlor	2.0	1.704	ug/L	85.2	70.0	130.0	PASS
122-34-9	Simazine	2.0	2.411	ug/L	120.55	70.0	130.0	PASS
13071-79-9	Terbufos	2.0	1.665	ug/L	83.25	70.0	130.0	PASS
1582-09-8	Trifluralin	2.0	1.853	ug/L	92.65	70.0	130.0	PASS

08/03/99

**Environmental Health Laboratories
Semi-Volatile Organic Chemicals
Internal Standard Percent Recovery**

	IS1 Area	IS1 RT
CCC Standard	2540476	16.4648
CCC Upper Limit	3302618.8	N/A
CCC Lower Limit	1778333.2	N/A
Init Cali Lower Limit	N/A	N/A

Sample No.	Filename	IS1 Area	Q	IS1 RT	Q	IS1 %Rec	Q	Matrix
1. 399181 / LMB	MB-525A	2518894		16.4831		99.15		RW
2. 399182 / LFB	FB-525A	2410951		16.4658		94.90		RW
3. 396990 / FS	396990	3403544	Q	16.4658		133.97	Q	GW
4. 396995 / FS	396995	3185092		16.4658		125.37		GW
5. 397000 / FS	397000	3354746	Q	16.4648		132.05	Q	GW
6. 397005 / FS	397005	3231415		16.4484		127.20		GW
7. 397010 / FS	397010	3870225	Q	16.4658		152.34	Q	GW
8. 397015 / FS	397015	2913647		16.4484		114.69		GW
9. 397020 / FS	397020	2993281		16.4484		117.82		GW
10. 397035 / FS	397035	3310313	Q	16.4502		130.30	Q	GW
11. 397040 / FS	397040	2925533		16.4648		115.16		GW
12. 397045 / FS	397045	3123475		16.4502		122.95		GW
13. 399180 / CCC	C-2-18B	3600368	Q	16.4493		141.72	Q	OS

IS1 = IS-Pyrene-d10
Q = Out of Range

Environmental Health Laboratories
Semi-Volatile Organic Chemicals
Surrogate Percent Recovery

Sample No./ Desc	Filename	SS1	target	%Rec	Q	SS2	target	%Rec	Q	SS3	target	%Rec	Q	SS4	target	%Rec	Q	Tot Matrix
1. 399181 / LMB	MB-525A	3.865	5.0	78.48		4.382	5.0	88.97		4.275	5.0	86.80		4.692	5.0	95.27	0	RW
2. 399182 / LFB	FB-525A	4.388	5.0	83.42		5.416	5.0	102.97		4.676	5.0	88.90		5.136	5.0	97.64	0	RW
3. 396990 / FS	396990	4.024	5.0	82.46		4.717	5.0	96.66		4.616	5.0	94.59		4.716	5.0	96.64	0	GW
4. 396995 / FS	396995	4.244	5.0	86.79		4.725	5.0	96.63		4.544	5.0	92.92		4.584	5.0	93.74	0	GW
5. 397000 / FS	397000	4.408	5.0	89.78		4.816	5.0	98.09		4.499	5.0	91.63		5.356	5.0	109.08	0	GW
6. 397005 / FS	397005	4.111	5.0	84.33		4.827	5.0	99.02		4.546	5.0	93.25		5.782	5.0	118.61	0	GW
7. 397010 / FS	397010	4.273	5.0	85.98		4.785	5.0	96.28		4.39	5.0	88.33		4.67	5.0	93.96	0	GW
8. 397015 / FS	397015	3.564	5.0	71.78		4.33	5.0	87.21		4.103	5.0	82.64		4.694	5.0	94.54	0	GW
9. 397020 / FS	397020	4.017	5.0	82.40		4.613	5.0	94.63		4.481	5.0	91.92		4.6	5.0	94.36	0	GW
10. 397035 / FS	397035	4.291	5.0	87.75		4.654	5.0	95.17		4.509	5.0	92.21		4.312	5.0	88.18	0	GW
11. 397040 / FS	397040	3.507	5.0	40.06	Q	5.533	5.0	63.20	Q	7.646	5.0	87.33		6.602	5.0	75.41	2	GW
12. 397045 / FS	397045	4.09	5.0	82.63		4.835	5.0	97.68		4.619	5.0	93.31		6.848	5.0	138.34	Q	1
																		GW

SS1 = SS-2,4,5,6-Tetrachloro-m-xylene
 SS2 = SS-4,4'-Dichlorobiphenyl
 SS3 = SS-Pentachloronitrobenzene
 SS4 = SS-Triphenylphosphate
 Q = Out of Range

**PESTICIDES & INDUSTRIAL CHEMICALS EXTENDED
INITIAL CALIBRATION**

Lab Name: Environmental Health Laboratories
 Contract: BAA 97-044
 Project: IDEM - Pesticide Network
 Column: Restek XTI-5 30m x 0.25mm ID

Lab ID: unknown
 Task: 4A
 Case: n/a
 Method: 525.2

Acq. File: A041699A
 Data Directory: AE\041699A
 Initial Cali File: 0305G0AE
 Instrument ID: GC/MS - AE

Data File / Sample ID:	I005-18A	I-01-18A	I-05-18A	I-1-18A	I-2-18A	I-5-18A	I-10-18A	I-25-18A	I-50-18A	I-100-18A	Avg Rf	% RSD	Corr Coeff	Q
Concentration (ug/L):	0.05	0.1	0.5	1	2	5	10	25	50	100				
Compound	Rf	Rf	Rf	Rf	Rf	Rf	Rf	Rf	Rf	Rf	Rf	Rf	Rf	
Acetochlor	----	0.214	0.256	0.310	0.311	0.318	0.323	0.315	----	----	0.292	14.2	0.9188	*
Alachlor	----	0.957	1.084	1.189	1.263	1.291	1.318	1.238	----	----	1.191	10.8	0.9964	
Atrazine	----	0.284	0.379	0.438	0.454	0.454	0.441	----	----	----	0.408	16.5	1.0000	
Bromacil	----	0.212	0.198	0.351	0.488	0.759	0.825	0.894	----	----	0.532	55.1	0.9766	*
Cyanazine	----	0.161	0.164	0.262	0.297	0.346	0.373	0.405	----	----	0.287	33.8	0.9188	*
Diazinon	----	0.999	0.940	1.054	1.091	1.004	0.976	----	----	----	1.011	5.4	0.9015	
Endosulfan I	----	0.247	0.247	0.250	0.280	0.272	0.295	0.286	----	----	0.268	7.4	0.9188	
Endosulfan II	----	0.277	0.256	0.259	0.318	0.319	0.321	0.323	----	----	0.296	10.4	0.9188	
Endosulfan sulfate	----	0.220	0.208	0.215	0.243	0.249	0.268	0.281	----	----	0.241	11.4	0.9188	
Fenamiphos	----	0.126	0.149	0.239	0.341	0.618	0.718	0.819	----	----	0.430	66.1	0.9766	*
Metolachlor	----	2.018	2.274	2.610	2.866	2.845	2.868	2.505	----	----	2.569	12.8	0.9986	
Metribuzin	----	0.292	0.403	0.486	0.576	0.629	0.654	0.670	----	----	0.530	26.9	0.9822	
Pendimethalin	----	0.240	0.329	0.442	0.514	0.570	0.592	0.600	----	----	0.470	29.8	0.9747	
Prometon	----	0.610	0.755	0.914	1.007	0.993	0.962	0.710	----	----	0.850	18.5	0.9822	
Propachlor	----	0.583	0.606	0.704	0.778	0.782	0.770	0.692	----	----	0.702	11.7	0.9822	
Simazine	----	0.058	0.062	0.136	0.178	0.240	0.255	0.259	----	----	0.170	51.2	0.9188	*
Terbufos	----	1.093	1.116	1.269	1.358	1.397	1.463	1.428	----	----	1.303	11.4	0.9928	
Trifluralin	----	0.835	0.816	0.942	1.029	1.101	1.212	1.149	----	----	1.012	15.2	0.9971	

Avg RF = Average response factor

Max %RSD = 30% for a linear fit

Q = A flag or qualifier indicating possible cause for an out of range or failed result.

Comments:

DETERMINATION OF METHOD DETECTION LIMITS
METHOD 525.2 Extended - BROAD SPECTRUM PESTICIDES

Lab Name: Environmental Health Laboratories
 Contract: n/a
 Project: Routine MDL
 Column: Restek XTI-5 30m x 0.25mm ID
 Matrix Code: RW

Lab ID: unknown Acq. File: A032598A
 Task: n/a Data Directory: AE032598A
 Case : n/a Initial Call Data: 0220F0AE
 Method: 525.2C Instrument ID: GC/MS - AE

Method	CAS#	Parameter	Target	Observed Recovery							Std.	Calcd.	Units
				Rep-1	Rep-2	Rep-3	Rep-4	Rep-5	Rep-6	Rep-7			
525.2	34256-82-1	Acetochlor	0.1	0.097	0.111	0.096	0.086	0.103	0.104	0.099	0.0078	0.025	ug/L
525.2	15972-60-8	Alachlor	0.1	0.124	0.119	0.128	0.120	0.129	0.121	0.127	0.0041	0.013	ug/L
525.2	1912-24-9	Atrazine	0.1	0.101	0.098	0.110	0.097	0.101	0.105	0.103	0.0044	0.014	ug/L
525.2	314-40-9	Bromacil	0.1	0.216	0.223	0.208	0.211	0.205	0.222	0.216	0.0068	0.021	ug/L
525.2	21725-46-2	Cyanazine	0.1	0.108	0.121	0.096	0.109	0.108	0.110	0.109	0.0073	0.023	ug/L
525.2	333-41-5	Diazinon	0.1	0.289	0.278	0.283	0.286	0.282	0.265	0.252	0.0133	0.042	ug/L
525.2	959-98-8	Endosulfan I	0.1	0.142	0.142	0.123	0.140	0.129	0.130	0.130	0.0075	0.024	ug/L
525.2	33213-65-9	Endosulfan II	0.1	0.104	0.119	0.090	0.129	0.086	0.100	0.094	0.0157	0.049	ug/L
525.2	1031-07-8	Endosulfan Sulfate	0.1	0.096	0.097	0.095	0.110	0.099	0.092	0.128	0.0126	0.040	ug/L
525.2	22224-92-6	Fenamiphos	0.1	0.108	0.118	0.129	0.122	0.127	0.116	0.118	0.0071	0.022	ug/L
525.2	51218-45-2	Metolachlor	0.1	0.122	0.118	0.125	0.122	0.120	0.126	0.126	0.0031	0.010	ug/L
525.2	21087-64-9	Metribuzin	0.1	0.093	0.091	0.096	0.091	0.099	0.099	0.095	0.0029	0.009	ug/L
525.2	40487-42-1	Pendimethalin	0.1	0.095	0.099	0.096	0.102	0.103	0.096	0.094	0.0035	0.011	ug/L
525.2	1610-18-0	Prometon	0.1	0.084	0.069	0.068	0.070	0.057	0.046	0.066	0.0118	0.037	ug/L
525.2	1918-16-7	Propachlor	0.1	0.119	0.106	0.119	0.103	0.117	0.119	0.119	0.0070	0.022	ug/L
525.2	122-34-9	Simazine	0.1	0.122	0.113	0.103	0.096	0.102	0.109	0.111	0.0085	0.027	ug/L
525.2	13071-79-9	Terbufos	0.1	0.117	0.103	0.128	0.097	0.132	0.126	0.126	0.0135	0.042	ug/L
525.2	1582-09-8	Trifluralin	0.1	0.139	0.138	0.140	0.129	0.134	0.143	0.145	0.0054	0.017	ug/L

Q = A flag or qualifier indicating possible cause for an out of range or failed result.

Comments _____